CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, December 13, 1906.

CONTENTS

CONSTRUCTION NEWS:
Plans and Specifications on File..... 201
List of Contracts Pending..... 201
Railways 202
Electric Railways 202
Light and Power Plants..... 202
Bridges 203
Buildings 203
Water Supply and Irrigation..... 204
Sewerage 205
Garbage Disposal 205
Streets and Roads 205
Manufacturing Plants 206
Miscellaneous Contracts 206
U. S. Possessions and Cuba..... 207
Contract Prices 207
READERS' WANTS 206
CIVIL SERVICE EXAMINATIONS 207
PROPOSALS 208

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Dec.				
*15	Ditches	Glendive, Mont	P., S. & B. S.	11- 1
*15	Structures	Glendive, Mont	S. & B. S.	11-15
*17	Bridge	Fall River, Mass	P., S. & B. S.	12- 6
19	Steel castings	Philadelphia, Pa.	P., S. & B. S.	12-13
*20	Bridge	Charleston, W. Va	P. & S.	12- 6
*20	Sluice gates	Cody, Wyo	S. & B. S.	11-15
*22	Steel derrick	Philippine Islands	S.	11-22
22	Cranes	Portsmouth, N. H	S.	11-29
*26	Power plant	Washington, D. C.	S. & B. S.	11-29
Jan.				
4	Pumping engines	Phila. Pa	S. & B. S.	12-13
5	Blasting	Portsmouth, N. H	S.	12-13

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close. Work. Place. On file. See issue

Dec. 17. Power-house, Sault Ste. Marie, Mich....Nov. 8
Advertised, Eng. News, Dec. 6 and 13.
Dec. 26. Power plant, Washington, D. C.....Nov. 29
Advertised, Eng. News, Nov. 29 to Dec. 20.
Jan. 10. Electric equipment, Pasadena, Cal.....Dec. 6
Feb. 1. Gas works, Richmond, Va.....Dec. 6
Advertised, Eng. News, Dec. 6.

BRIDGES.

Dec. 13. Bridge, New York, N. Y.....Dec. 6
Dec. 14. Bridge, Spokane, Wash.....Dec. 6
Dec. 15. Bridges, Sioux City, S. Dak.....Dec. 6
Dec. 15. Bridge, Carthage, Tenn.....Nov. 8
Advertised, Eng. News, Nov. 8 and 15.
Dec. 15. Bridge, Newport, Ind.....Nov. 15
Advertised, Eng. News, Nov. 15.
Dec. 15. Equipment, Cleveland, Ohio.....Dec. 13
Dec. 17. Bridge, Fall River, Mass.....oNv. 15
Advertised, Eng. News, Nov. 15 to 29.
Dec. 18. Equipment, New York, N. Y.....Dec. 13
Dec. 20. Girders, etc., Bridgeport, Conn.....Dec. 6
Advertised, Eng. News, Dec. 6.
Dec. 21. Bridges, Chicago, Ill..... .....Dec. 13
Dec. 22. Lamp posts, Washington, D. C.....Dec. 13
Advertised, Eng. News, Dec. 13.
Dec. 20. Bridge, Charleston, W. Va.....Nov. 29
Advertised, Eng. News, Nov. 29 and Dec. 6.
Dec. 27. Bridge, Toledo, Ohio .....Dec. 13
Dec. 29. Bridge, Greenfield, Ind.....Dec. 6
Jan. 4. Bridge, Manistee, Mich.....Dec. 13
Advertised, Eng. News, Dec. 13.

BUILDINGS.

Dec. 15. Office building, Washington, D. C.....Nov. 22
Advertised, Eng. News, Nov. 22 to Dec. 13.
Dec. 15. Store, Philadelphia, Pa.....Dec. 13
Dec. 17. Station house, New York, N. Y.....Dec. 13
Dec. 17. Heating apparatus, New York, N. Y.....Dec. 13
Dec. 17. Horticultural building, Toronto, Ont....Dec. 13
Dec. 18. Brewery, Fort Steele, B. C.....Dec. 13
Dec. 18. Brewery, Fernie, B. C.....Nov. 15
Dec. 20. Plans and specifications, Shreveport, La..Oct. 4
Dec. 20. Court-house, West Liberty, Ky.....Nov. 22
Dec. 20. Officers' quarters, Fort Robinson, Neb..Dec. 6
Dec. 20. Post-office, Atlantic City, N. J.....Dec. 6
Dec. 20. Grandstand, Columbus, Ohio .....Dec. 6
Dec. 20. Building, Stamford, Tex.....Dec. 13
Dec. 22. Girders, Washington, D. C.....Dec. 13
Dec. 24. Jail, York, Pa.....Dec. 13
Dec. 28. Mess hall, Klamath Agency, Ore.....Dec. 13
Dec. 29. Shelter, Fort Assinniboine, Mont.....Dec. 6
Advertised, Eng. News, Dec. 6 to 27.
Dec. 30. Manufacturing plant, Two Rivers, Wis..Nov. 29
Jan. 2. Post-office, Wausau, Wis.....Nov. 29
Advertised, Eng. News, Nov. 29 and Dec. 6.
Jan. 4. Coal pockets, Philadelphia, Pa.....Dec. 6
Advertised, Eng. News, Dec. 6 to 27.
Jan. 4. Light-house, Baltimore, Md.....Dec. 6
Advertised, Eng. News, Dec. 6.
Jan. 7. Post-office, Newport, R. I.....Dec. 6
Advertised, Eng. News, Dec. 6 and 13.
Jan. 10. Foundations, Atlanta, Ga.....Dec. 13
Jan. 15. Post-office extension, Dallas, Tex.....Dec. 13
Advertised, Eng. News, Dec. 13 and 20.
Feb. 1. Leprosy hospital, Hawaii .....Dec. 13
Advertised, Eng. News, Dec. 13 and 20.
Feb. 1. Factory, Kokomo, Ind.....Dec. 6
Feb. 8. Library, University, N. Dak.....Nov. 15

WATER SUPPLY AND IRRIGATION.

Dec. 14. High level sewer, Boston, Mass.....Nov. 29
Advertised, Eng. News, Nov. 29.
Dec. 15. Pumps, Ft. Worth, Tex.....Nov. 29
Advertised, Eng. News, Nov. 29 and Dec. 6.
Dec. 15. Air compressor, Ft. Worth, Tex.....Nov. 29
Advertised, Eng. News, Nov. 29 and Dec. 6.
Dec. 15. Excavation, Glendive, Mont.....Nov. 1
Advertised, Eng. News, Nov. 1 to 29.
Dec. 15. Structures, Glendive, Mont.....Nov. 8
Advertised, Eng. News, Nov. 8 to Dec. 6.
Dec. 17. Pumps, Chicago Heights, Ill.....Dec. 6
Dec. 17. Intake, Hull, Que.....Dec. 13
Dec. 18. Water-works, Durant, Ind. T.....Dec. 13
Dec. 19. Castings, Philadelphia, Pa.....Dec. 13
Dec. 19. Water-works bonds, Manila, P. I.....Dec. 13
Dec. 19. Supplies, Baltimore, Md.....Dec. 13
Dec. 20. Sluice gates, Cody, Wyo.....Nov. 15
Advertised, Eng. News, Nov. 1 to 29.
Dec. 21. Supplies, Minneapolis, Minn.....Dec. 13
Dec. 22. Water-works, Bourbonnais, Ill.....Dec. 13
Advertised, Eng. News, Dec. 13 and 20.
Dec. 22. Water-works, Fort Williams, Ont.....Nov. 29
Advertised, Eng. News, Nov. 29 and Dec. 6.
Dec. 22. Pumping engines, Chicago, Ill.....Nov. 29
Advertised, Eng. News, Nov. 29 to Dec. 20.
Dec. 24. Removing engine, Cincinnati, Ohio.....Dec. 13
Dec. 26. Supplies, New York, N. Y.....Dec. 13
Dec. 26. Steel bars, Portland, Ore.....Dec. 13
Advertised, Eng. News, Dec. 13 and 20.
Dec. 26. Boilers, New York, N. Y.....Dec. 13
Dec. 28. Water-works, Klamath Agency, Ore....Dec. 6
Dec. 31. Tank, Fortress Monroe, Va.....Dec. 6
Advertised, Eng. News, Dec. 6 to 27.
Dec. 31. Pipe, Winnipeg, Man.....Dec. 6
Dec. 31. Supplies, Calgary, Alta.....Dec. 13
Jan. 4. Pumping engines, Philadelphia, Pa.....Dec. 6
Advertised, Eng. News, Dec. 6 to 27.
Jan. 9. Dam, etc., Mitchell, Neb.....Nov. 22
Advertised, Eng. News, Nov. 22 to Jan. 3.
Jan. 10. Water supply, Elkhart, Ind.....Nov. 29
Jan. 15. Water-works, Bisbee, Ariz.....Dec. 13
Advertised, Eng. News, Dec. 13 to Jan. 3.
Jan. 23. Pipe, New Orleans, La.....Nov. 15
Advertised, Eng. News, Nov. 15 to Jan. 17.
Jan. 23. Pipe, etc., New Orleans, La.....Dec. 13
Jan. 24. Steel bars, Mitchell, Neb.....Dec. 13
Advertised, Eng. News, Dec. 13 to Jan. 3.

SEWERAGE.

Dec. 13. Sewers, Buffalo, N. Y.....Dec. 6
Dec. 14. Sewer, boston, Mass.....Nov. 29
Advertised, Eng. News, Nov. 29.
Dec. 15. Sewers, West Seneca, N. Y.....Nov. 15
Advertised, Eng. News, Nov. 15 to Dec. 13.
Dec. 17. Sewers, San Francisco, Cal.....Nov. 29
Dec. 18. Sewers, Durant, Ind. T.....Dec. 13
Dec. 18. Sewers, Fairbury, Neb.....Nov. 29
Dec. 18. Disposal plant, Gainesville, Fla.....Nov. 29
Dec. 18. Sewers, Louisville, Ky.....Dec. 6
Dec. 18. Sewers, New York, N. Y.....Dec. 6
Dec. 19. Sewers, Cincinnati, Ohio.....Dec. 6
Dec. 19. Sewer bonds, Manila, P. I.....Dec. 13
Dec. 27. Sewers, New York, N. Y.....Dec. 13
Jan. 7. Sewers, Rolla, Mo.....Dec. 6
Jan. 12. Sewers, Merchantville, N. J.....Dec. 13
Advertised, Eng. News, Dec. 13, 27 and Jan. 10.
Jan. 15. Sewers, Bisbee, Ariz.....Dec. 13
Advertised, Eng. News, Dec. 13 to Jan. 3.
Jan. 15. Disposal plant, Bisbee, Ariz.....Dec. 13
Advertised, Eng. News, Dec. 13 to Jan. 3.
Jan. 21. Sewers, Wichita, Kan.....Dec. 13
Advertised, Eng. News, Dec. 13 to 27.

STREETS AND ROADS.

Dec. 13. Roads, Albany, N. Y.....Dec. 13
Dec. 15. State roads, Albany, N. Y.....Dec. 6
Dec. 18. Sidewalks, Louisville, Ky.....Dec. 6
Dec. 18. Paving, New York, N. Y.....Dec. 6
Dec. 18. Road, Meadville, Pa.....Dec. 13
Dec. 18. Sidewalks, Louisville, Ky.....Dec. 13
Dec. 18. Paving, St. Louis, Mo.....Dec. 13
Dec. 19. Paving, Cincinnati, Ohio.....Dec. 6
Dec. 19. Grading, New York, N. Y.....Dec. 6
Dec. 19. Paving, Thomasville, Ga.....Dec. 6
Advertised, Eng. News, Dec. 6 and 13.
Dec. 19. Asphalt plant, New York, N. Y.....Dec. 6
Dec. 21. Paving, Buffalo, N. Y.....Dec. 13
Dec. 24. Paving, New York, N. Y.....Dec. 13
Dec. 24. Paving, Cincihnati, Ohio.....Dec. 6
Dec. 24. Grading, Madisonville, Ohio .....Nov. 15
Dec. 26. Paving, Cincinnati, Ohio.....Dec. 6
Dec. 29. Resurfacing, Sharpsburg, Md.....Dec. 6
Jan. 7. Paving, Newburgh, N. Y.....Dec. 6
Advertised, Eng. News, Dec. 6 and 13.
Jan. 7. Macadam, Amityville, N. Y.....Dec. 6
Advertised, Eng. News, Dec. 6 and 13.

MISCELLANEOUS CONTRACTS.

Dec. 13. Dredging, Mt. Pulaski, Ill.....Nov. 22
Advertised, Eng. News, Nov. 22 to Dec. 6.
Dec. 17. Piers, Ottawa, Ont.....Dec. 6
Dec. 17. Levee, New Orleans, La.....Dec. 13
Dec. 17. Street cleaning, Philadelphia, Pa.....Dec. 13
Dec. 18. Repairing fire-boats, New York, N. Y....Dec. 13
Dec. 18. Lumber, Winnipeg, Man.....Dec. 13
Dec. 18. Naval, Supplies, Washington, D. C.....Nov. 22
Dec. 19. Canal work, Albany, N. Y.....Nov. 22
Dec. 19. Steel stand-pipe, Guantanamo, Cuba....Nov. 15
Dec. 19. Telephone materials, Australia (Foreign).Nov. 15
Dec. 19. Rock, New York, N. Y.....Dec. 13
Dec. 20. Pier, St. Valier, Que.....Dec. 13
Dec. 20. Canal, Pittsfield, Ill.....Dec. 13
Dec. 20. Sluice gates, Wyoming.....Nov. 1
Advertised, Eng. News, Nov. 1 to 29.
Dec. 20. Barges, Vicksburg, Miss.....Nov. 22
Advertised, Eng. News, Nov. 22 to Dec. 13.
Dec. 21. Rock removal, New York, N. Y.....Nov. 22
Advertised, Eng. News, Nov. 22 to Dec. 13.
Dec. 22. Steel derrick, Philippine Islands.....Nov. 22
Advertised, Eng. News, Nov. 22 and 29.
Dec. 22. Cranes, Portsmouth, N. H.....Nov. 29
Dec. 22. Change of line, Huntingdon & Broad Top Mt. Ry.....Dec. 6
Advertised, Eng. News, Dec. 6.
Dec. 22. Drainage, De Land, Ill.....Dec. 6
Advertised, Eng. News, Dec. 6.
Dec. 26. Steel bars, Portland, Ore.....Dec. 13
Dec. 26. Cement, steel, etc., New York, N. Y.....Dec. 13
Dec. 26. Electric conductors, New York, N. Y.....Dec. 13
Dec. 27. Armory equipment, New York, N. Y.....Dec. 13
Dec. 27. Destructor plans, New York, N. Y.....Nov. 29
Dec. 28. Dredging, New York, N. Y.....Nov. 29
Advertised, Eng. News, Dec. 6 to 27.
Dec. 28. Clam-shell dredge, Wilmington, Del....Dec. 6
Advertised, Eng. News, Dec. 6 to 20.
Dec. 28. Engineering supplies, Panama .....Dec. 13
Dec. 28. Ditch, Des Moines, Iowa.....Dec. 13
Jan. 5. Blasting, Portsmouth, N. H.....Dec. 13
Jan. 8. Dredging, New York, N. Y.....Dec. 6
Advertised, Eng. News, Dec. 6 to 27.
Jan. 9. Monument, Mt. Vernon, Ind.....Nov. 22
Jan. 10. Street railway franchise, Salem, Mass..Dec. 13
Jan. 15. Crane runways, Callejo, Cal.....Dec. 13
Jan. 17. Wharf, Key West, Fla.....Dec. 6
Advertised, Eng. News, Dec. 6 to Jan. 3.
Jan. 29. Piers, North Chicago, Ill.....Dec. 13
Feb. 11. Railway, Spain (Foreign).....Dec. 6
Mar. 18 ('07). Tunnel, New Zealand (Foreign)..Sept. 13
Advertised, Eng. News, Sept. 13 to Mar. 14.
Apr. 12 ('07). Ditches, Brookings, S. Dak.....Oct. 18

CIVIL SERVICE EXAMINATIONS.

Dec. 15. Tracer, Albany, N. Y.....Nov. 22
Advertised, Eng. News, Nov. 22.
Dec. 15. C. E. Draftsman, Albany, N. Y.....Nov. 22
Advertised, Eng. News, Nov. 22.
Dec. 15. Bridge Designer, Albany, N. Y.....Nov. 22
Advertised, Eng. News, Nov. 22.
Dec. 15. Asst. Civil Engr., Albany, N. Y.....Nov. 22
Advertised, Eng. News, Nov. 22.
Dec. 15. Arch. Draftsman, Albany, N. Y.....Nov. 22
Advertised, Eng. News, Nov. 22.
Dec. 27. Surveyor, Philippines .....Dec. 6
Jan. 3. Aids, etc., Washington, D. C.....Dec. 13
Jan. 3. Civil Engr., Philippines.....Dec. 13
Jan. 9. Topographic & Cartographic Draftsmen, Washington, D. C.....Dec. 13
Jan. 9-10. Computer, Draftsman, Wash., D. C..Dec. 13

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

BOSTON & ALBANY.—It is reported that this company will soon commence improvements at Chatham, Columbia county, N. Y., which will make it one of its finest shipping points. Plans are drawn and surveys made for the new structures, which will be located at a point just east of the fair grounds. The improvements to be undertaken will cost $300,000. Chatham is the terminus of the Harlem-New York division of the New York Central R. R., and of the Hudson-Chatham branch of the Boston & Albany from the south; also, the terminus of the Chatham-Bennington division of the Rutland road from the north, and is on the main line of the Boston & Albany, east and west. W. Shepard is Ch. Engr. of the B. & A., at Boston.

CANADIAN NORTHERN.—The Canadian Northern Railway Co. has let and is letting contracts for over $4,500,000 worth of equipment, practically the whole output of all the Canadian factories until next autumn being secured. The contracts let to date amount to $4,288,076. They include 75 locomotives, 2,015 freight cars of all classes, and 59 passenger, sleeping, dining and parlor cars. In addition to this the company is now negotiating for 525 more freight cars at an estimated cost of $537,000, bringing the total cost of the new equipment up to $4,825,000, all for 1907 delivery. The RHODES-CURRY CO., of Amherst, N. S., has the contract for 1,500 cars and 22 passenger and baggage cars. The remainder of the car equipment is in the hands of the CROSSEN CAR CO., of Cobourg, Ont., and the CANADA CAR CO., of Montreal. A few of the sleeping cars are being built in the United States. In regard to locomotives, the Canadian Northern has contracted for the whole of the output of the CANADIAN LOCOMOTIVE WORKS, of Kingston, Ont., until next October; the CANADIAN FOUNDRY CO., Toronto, will deliver its whole output for the next year, and the LOCOMOTIVE & MACHINE WORKS, Montreal, will deliver their output for February, March, April, August and September of next year. The overflow orders will go to the United States. W. A. Brown is Gen. Supt. and E. Langham is Pur. Agt., both at Winnipeg, Man.

CANADIAN PACIFIC.—This company has entered into a contract with the VANCOUVER ISLAND DEVELOPMENT CO. to clear 150,000 acres of land in the Esquimalt and Nanaimo railway grant on Vancouver Island, recently acquired by the railroad company. The total cost of clearing will be about $15,000,000. The contract calls for the delivery of 10,000 acres ready for settlement at the end of 1908, and a similar acreage each following year until the whole belt is cleared.

We are officially advised that the C. P. Ry. has been working on an extension from Weyburn, Sask., on the Portal Section, to Stoughton, on the Moose Mountain Section, a distance of about 37 miles, all season. The contract for this section was let to J. G. HARGRAVE, of Winnipeg, Man., in the spring and he has completed the grading of this line. The rails will be laid next summer.

COLUMBUS & SOUTHERN.—E. B. Bingham, of Toledo, Ohio, representing the syndicate which has purchased this road, writes us under date of Dec. 10, that a contract has been awarded to the UNITED PUBLIC WORKS CO., of Lancaster, Ohio, to extend it north to Lancaster, and from South Bloomingville through the coal fields to the Ohio River, about 200 miles. The present contract with the United Public Works Co. covers 100 miles of the line and some branches. New officials of the road have not yet been elected.

CRYSTAL RIVER & SAN JUAN.—C. F. Meek, Pres., Marble, Colo., states that this road, recently completed from Placita along the Crystal River to Marble, Colo., is eight miles in length. It is an extension of the Crystal River R. R. G. C. Millett is Ch. Engr., Marble, Colo. Noted on Nov. 29.

DELAWARE & HUDSON.—Company will award contracts for straightening its tracks between Schenectady and Delanson, N. Y. A series of irregular curves and steep grades are to be removed, and a uniform grade established all the way. James MacMartin, Albany, N. Y., is Ch. Engr.

EMMITSBURG, R. R.—An extension toward Frederick, Md., is under consideration. Vincent Sebold is Gen. Mgr. and Treas., at Emmitsburg, Md.

GLENVILLE & KANAWHA.—Robert L. Ruddell, Gen. Mgr., Glenville, W. Va., advises us that right-of-way is being obtained for company's proposed line between Glenville and Weston, 30 miles. Surveys have been made. Capital is partly secured.

GRAND TRUNK PACIFIC.—Contract for construction of an 8-mile section of this line in Quebec has been given to R. L. McDONALD and A. SMITH, of Pugwash, N. S.

GULFPORT & GREAT NORTHERN.—We are advised by S. C. Gardner, Secy. Progressive Business League, Gulfport, Miss., that contracts will be let soon for building this line from Gulfport to Vicksburg, via Poplarville. Surveys have been made and right-of-way and capital are secured. The Gulfport & Northwestern was recently incorporated in Mississippi to build the railroad projected by the Edward Hines Lumber Co., of Chicago, from Gulfport to Vicksburg. The route is from Gulfport in a northwesterly direction through the counties of Harrison, Hancock and Pearl River, crossing the New Orleans & Northeastern Railroad at Poplarville, in Pearl River county; crossing Pearl River into and through the northeastern corner of Washington Parish, La., and thence through the southwest corner of the county of Marion, Miss., and through the counties of Pike, Lawrence and Lincoln, crossing the Illinois Central Railroad and the Mississippi Central Railroad at Brookhaven; thence through Lincoln county, Copiah county and Warren county to Vicksburg. The application states that the road is to be completed within twelve months from Dec. 1, 1906, as far as Poplarville, and the remainder of the line within five years thereafter. Incorporators: Edward Hines, of Chicago; C. F. Wiehe, of Chicago; Frederick A. Weyerhaeuser, of St. Paul, Minn.; A. C. McAlpin and V. A. Griffith, of Gulfport, Miss. The officers are: Edward Hines, Pres.; E. F. Barthe, First Vice-Pres.; A. C. McAlpin, Second Vice-Pres.; F. A. Weyerhaeuser, Treas.; C. F. Wiehe, Secy.; S. J. Cusson, Gen. Mgr.; V. A. Griffith, Gen. Counsel.

HAMPSHIRE SOUTHERN.—John J. Cornwell, Gen. Atty., Romney, W. Va., advises us that contracts will be let probably in January for building this company's projected railway from Romney to Petersburg, W. Va., 38 miles. Surveys are made and right-of-way is being obtained. Capital for construction has been secured. A. Spates Brady is Ch. Engr., and W. B. Cornwell is Pres., both with headquarters at Fairmont, W. Va. Company was chartered several months ago with $30,000 capital stock.

HARRISBURG & OHIO RIVER.—D. E. BAXTER & CO., Inc., 27 William St., New York, have contracts for constructing this proposed line from Galatia, Ill., on the Illinois Central, southeast to Harrisburg, on the Cleveland, Cincinnati, Chicago & St. Louis. It has been fully financed and work will begin at once. T. Edwin Bell, of Hammond, Ind., is Pres., and C. W. Ferguson, of Harrisburg, Ill., Secy.

LAKE CHARLES & NORTHERN.—A charter has been granted this company in Louisiana, with a capital of $700,000. J. A. Bell, of Lake Charles, La., has been elected Vice-Pres., and E. B. Cushing, Gen. Supt. of the Southern Pacific, has been made Secy. and Treas. The charter specifies that road is to be built from Lake Charles to De Ridder, La., and authorizes the construction of the road through the parishes of Vernon, Rapides, Sabine, Natchitoches, Grant, De Soto, Red River, Winn, Bienville, Caddo, Webster and Claiborne.

MACON, DUBLIN & SAVANNAH.—On Dec. 22 the stockholders will act upon a proposition to issue $1,880,000 of bonds. It is said that plans for general improvements on a large scale probably will be announced. W. C. Curd is Engr. M. W., at Macon, Ga. Company is said to have made survey for an extension from Macon to Atlanta, about 90 miles.

ORANGE & KEYSVILLE.—Robert T. Hubard, Dillwyn, Va., Pres., informs us that proposals are now being received by the company for building proposed 40-mile line from Dillwyn to Keysville, Va., via Farmville. Greater part of right-of-way is secured. Survey is completed. Ten miles of grading are completed but no work is being done at present. There will be few bridges and little rock work. Line will be built with slight curves and average grade 30 ft., maximum, 1¼%. Estimated cost, $8,000 a mile.

SAVANNAH, AUGUSTA & NORTHERN.—Application will be made by this company for a charter to build a line about 402 miles long from Savannah, Ga., northwest to Rossville, Ga., opposite Chattanooga, Tenn. The route will be via Statesboro, Louisville and Athens, Ga., with a branch from some point in McDuffie county to Augusta, Ga. Capital, $8,000,000. The incorporators are J. G. Blitch, R. F. Donaldson, J. E. Donehoo, J. R. Miller, J. A. Brannen, Hinton Booth, Cecil W. Brannen, B. B. Sorrier and S. L. Moore, of Statesboro, Ga., and others.

TEXAS NORTHERN.—W. A. McDonald, Secy., Wilson Bldg., Dallas, Tex., advises us that company is prepared to let contracts for building between Dallas and Egan, 40 miles. Surveys are made and capital secured. Right-of-way is partly obtained. B. P. McDonald is Pres., Hans Helland is Ch. Engr., Wilson Bldg., Dallas. See "Dallas, Cleburne & Southwestern" item in issue of Dec. 6.

UMATILLA CENTRAL.—The contract for building this road, a branch of the Oregon Railroad & Navigation Co., from Pendleton to Pilot Rock, Ore., 13½ miles, has been awarded to the PACIFIC COAST CONSTRUCTION CO., Sherlock Bldg., Portland, Ore. G. W. Boschke is Ch. Engr., Portland.

UNION TERMINAL RY.—New railway terminal facilities are to be provided at St. Joseph, Mo., by the Union Terminal Ry. Co., on a tract of made land. This project was described in Engineering News (p. 262) on Mar. 8, 1906, in connection with the concrete-pipe sewers included in the work. The amount of work covered by the present contract is the filling of 28 acres of land, and the dikes and sewers for this, all of which are now nearly completed. The filling was done by Fox & Smith, of Kansas City, Mo., who have had two dredges on the work during the summer. L. D. W. Van Vliet is Gen. Mgr.

WISCASSET, WATERVILLE & FARMINGTON.—The property and franchises of the Wiscasset, Waterville & Farmington Railroad Co., which operated a narrow-gage railroad, 58 miles in length, between Wiscasset and Winslow and from Weeks Mills to Albion, were sold at auction on Dec. 4, at Augusta, Me., to Carson C. Peck, 280 Broadway, New York, for $93,000. The sale was held by Receiver W. D. Patterson, of Wiscasset, by order of a decree of Associate Justice Whitehouse, of the supreme Court.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

SYRACUSE, N. Y.—The State Canal Board has approved the plans of the Syracuse, Lake Shore & Northern R. R. Co. for the extension of its electric railway lines at certain points within the canal blue-line. The company was also granted permission to make two crossings of the Oswego Canal, one at Baldwinsville and the other at Phoenix, on bridges to be erected by the company. This is in connection with the company's proposed extension of its line through these villages and surrounding country. C. D. Beebe, Syracuse, is Pres., and William B. Rockwell, Gen. Mgr.

TROY, N. Y.—The United Traction Co., of Albany, will build a line from Troy to Rensselaer, connecting with the present systems in these two cities, and establish a belt line between Troy and Albany the same, practically, as is maintained by the steam roads. Official announcement of this proposed step was made last week by Gen. Mgr. Edgar S. Fassett.

PERTH AMBOY, N. J.—The Perth Amboy & Staten Island Electric R. R. Co. has applied for incorporation in New Jersey. Company will have a capitalization of $175,000. The incorporators are: F. W. Schnitz, E. White, M. F. Reiff and H. Lowerself, of New York; E. Biesenbach, of Newark, and J. W. Humphreys, of New York. The office of the company is at New Brunswick, N. J. The new corporation proposes to build an electric line from Richmond, S. I., to Tottenville, and operate ferry service between that place and Perth Amboy, at which place negotiations are under way for water front property. Frederick Griffen and W. J. Lally, of 36 King St., New York, are carrying out the preliminary work.

LEWISBURG, PA.—The City Council, at a recent meeting with J. B. Nuss, the Pres. of the Lewisburg & Mifflinburg Electric Railway Co., of Bloomsburg, unanimously passed an ordinance giving the company right-of-way through the town. The right-of-way over the State road has been assured by the Union County Commissioners.

MANCHESTER, VA.—C. P. E. Burgwyn, Ch. Engr., Richmond, Va., of the Manchester & Midlothian Ry., has made survey between Manchester and the Midlothian coal fields. Company proposes rehabilitating old road-bed and relaying rails. The distance is about twelve miles.

SALEM, VA.—The City of Salem will receive bids for the sale of a street railway franchise until 7.30 p. m., on Jan. 10. Thos. I. Preston is Mayor.

LAKE CHARLES, LA.—A meeting of stockholders of the Lake Charles Street Railway Co. is to be held on Dec. 15 to act upon the proposition to increase the capital stock from $15,000 to $50,000. Paul O. Moss is Secy., 311 North Ryan St. Company operates eight miles of line.

CLEVELAND, OHIO.—Ordinances have been passed establishing new street car routes in the city as follows: On 66th St., from Quincy Ave. southeast to Woodland Ave.; on Storer Ave., southwest from 66th St. to Fulton Road, and on Trowbridge Ave. southwest, from Fulton Road to West 25th St. This action was taken at the request of the Forest City Railway Co. Each bid is to be accompanied by a check for $10,000, and if within six months the lowest bidder fails to construct the roads, the money is to be forfeited to the city. Fred. C. Alber, Society for Savings Bldg., is Gen. Mgr. of Forest City Co.; Peter Witt is City Engr.

INDIANAPOLIS, IND.—The Chicago, Indianapolis & Terre Haute Traction Co. is the name of a new company organized to construct an interurban electric railway to connect Lafayette, Attica and Terre Haute with a branch line to connect Attica with Fowler, Kentland and Kankakee, Ill., and another branch line to connect Attica with Danville and Rockville. A portion of the old Wabash & Erie Canal tow-path will be used. Traffic arrangements will be made to enter Chicago from Kankakee and Indianapolis from Danville. The company will be incorporated in a few days, with D. W. Bolen, Pres.; J. M. Noble, Secy., and A. L. Hasler, Treas.

CHAMPAIGN, ILL.—The Champaign & Kankakee Electric Railroad Co. has been incorporated in Illinois. The proposed line will extend from Champaign, Ill., to Chicago Heights. The company is capitalized at $100,000.

BUTTE, MONT.—City Council has adopted the report of the judiciary committee, which recommended that the Daly Davis Estate Mining Co. be granted the right to construct and operate car lines from its properties to the gulches west of the city, to dump the waste from its mines in these gulches.

SPRINGFIELD, MO.—T. P. McDonough, of Thomas P. McDonough & Co., Engrs. and General Contractors, Tacoma Bldg., Chicago, has financed the projected Kansas City, Nevada & Springfield Elec. R. R. Right-of-way probably will be donated by the city. Noted last week.

CANON CITY, COLO.—Frank D. Heath, Pres. of the Great Western Coal Co., Harding Bldg., this city, has purchased from F. S. Grange his interest in the Canon City, Florence & Royal Gorge Interurban Electric Railway Co. for $25,000. The deed conveys to the purchaser the right-of-way, franchises and all other property of the company. Ten miles are completed but not in operation. Railway will be extended to Florence, 8½ miles, and to South Canon, six miles. It connects Canon City and the park at the top of Royal Gorge.

DENVER, COLO.—The Denver Southwestern Ry. Co. has elected the following officers: George I. Cole, Pres.; C. H. Chase, Vice-Pres.; I. C. Cockey, Secy., and S. B. Thomas, Treas. Headquarters are in the Temple Court Bldg. The line will connect Denver, Englewood, Littleton and Fort Logan. It is planned to have an electric system installed, with standard-gage tracks and very heavy types of cars for freight and passengers. The company is at present operating coal mines in the Platte Cañon and are preparing to enlarge these mines immediately.

SAN FRANCISCO, CAL.—John J. Eagan, of 433 Larkin St., this city, has filed a petition with the Board of Supervisors for a franchise to construct and operate a street railroad along the present route of the Geary St. Road, together with another road to run from Fifth Ave. along Point Lobos Ave. to its junction with Cliff Ave., thence along Cliff Ave. to the point opposite Sutro Baths and Museum. Mr. Eagan asks for a 25-year franchise. He also agrees to pay the city 2% of the gross receipts of the road annually after five years from the granting of the same, as the charter provides, and he also agrees to light Geary St. from Kearny St. to Van Ness Ave., with electric lights without expense to the city.

ALAMEDA, CAL.—The City Council has extended to F. M. Greenwood the time for posting the $50,000 cash bond, which the complete granting of the Greenwood Electric Railway franchise is contingent. Greenwood & Co. were first allowed ten days in which to post the money. On account of the fire last April this time was extended six months. The extension granted for 120 days. Noted on Nov. 29.

MOSCOW, IDAHO.—Waldo G. [illegible], Gen. Passenger Agent of the Spokane & Inland Electric Ry. Co., states that the rails will be laid into Palouse City, on the extension of the road from Spokane by the middle of December, and that the contract for the extension from Palouse to Moscow will be awarded next month. It is expected that the road will be completed and ready for operation into Moscow by June 1, 1907. [illegible] M. Lupfer is Ch. Engr., Spokane, Wash.

SALT LAKE CITY, UTAH.—The Utah Light & Railway Co., of Salt Lake City, Utah, has placed an order for 60 miles of 80-lb. steel rails for the improvement of its system in that city. The company may expend about $2,000,000 during the next two years on improvements and extensions. R. S. Campbell is Secy. and Gen. Mgr. Company now operates 90 miles of railway.

CALGARY, ALTA.—W. M. Alexander, of Brandon, Man., is interested in a proposition to build an electric power plant and an electric street railway here. He is backed by a syndicate with $500,000. A. Davidson is Mayor.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

ELLSWORTH, MAINE.—Plans have been completed for the erection of the plant of the Bar Harbor & Union River Power Co. The plant is to be erected on the site of the old Boston Reduction Co. and is to be a hydro-electric one with an initial capacity of 2,500 HP. Geo. F. West, of Portland, Me., is Treas.

GLASTONBURY, CONN.—The contract for the erection of the plant of the Glastonbury Power Co. has been awarded to J. G. WHITE & CO., 43 Exchange Place, New York City. A dam 600 ft. wide and 60 ft. high will be erected and a 54-in. stay pipe will convey the water to the power-house, a distance of two miles. 1,500 HP. will be generated; 11,000 volts will be transmitted to Hartford. Two Spiral Francis turbines will be installed, 750 HP. each, and 200 ft. head. Twenty carloads of redwood will be shipped from California for this work.

CANASTOTA, N. Y.—The CENTRAL NEW YORK POWER CO., of Utica, has been awarded the contract for the Canastota municipal lighting. The company has purchased six acres of land in East North Canal St. on which it will erect its gas and electric power plants. W. E. Lewis is Pres., at Utica.

SHARON, N. Y.—An electric light plant is to be erected here by the city at a cost of $50,000. It will be necessary to issue bonds and a special election will be held.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Dec. 18, by John V. Coggey, Comr., Dept. of Correction, for installing electric power cable and electric motors in workshops on Blackwell's Island, N. Y.

WASHINGTON, D. C.—Bids are asked by H. B. F. Macfarland, H. L. West and John Biddle, Commissioners, until noon, Dec. 22, for 28 cast-iron lamp posts for Connecticut Ave. bridge in District of Columbia. (Advertised, Engineering News.)

RICHMOND, VA.—Schedule of Improvements required for the rehabilitation of the City Gas Works are on file at office of Engineering News. Bids are asked until 5 p. m., Feb. 1. (Advertised, Engineering News, Dec. 6.)

BRISTOL, W. VA.—Estimates and plans have been received by the City Council for an electric light plant, to be erected here. Estimated cost, $25,000 to $30,000.

WELCH, W. VA.—The Dixon-Pocahontas Coal Co. will erect a power-house at its mines here, at an estimated cost of $20,000. J. P. Davis is Supt. and Construct. Engr.

CLINTON, N. C.—The Clinton Light & Power Co. has been chartered to manufacture and sell electric light, heat and power. The authorized capital is $200,000. Henry A. Grady, Archibald McG. Graham and Walter F. Peterson, of Clinton, and Stephen S. Grady, of Cambridge, Mass., are stockholders.

COLUMBUS, GA.—The GENERAL ELECTRIC CO. has been awarded the contract to furnish generators, motors and other electrical equipment for a power plant to be installed by the Eagle and Phoenix Mills. The plant will generate 675 HP. Estimated cost, $16,000. O. S. Jordan is Supt., at Columbus.

RAGLAND, ALA.—The Ragland Water Power Co. is having surveys made for the development of water power at Lock No. 4 on the Coosa River. It is proposed to use the dam constructed by the Government and develop 10,000 HP. which will be transmitted by electricity to Ragland, Anniston, Talladega and Pell City, Ala., for light and power purposes; also furnishing power for a cement plant.

WEST MONROE, LA.—The city will issue $42,327 of bonds for the purpose of constructing an electric light plant here.

CLEVELAND, OHIO.—Bids are asked until Dec. 15 by the Board of Public Works for arc lights, transformers and other equipment

needed for the extension of the city electric light plant. A. R. Callow is Secy. Bd. Pub. Wks. Robert Lindsay is Gen. Supt.

F. C. Wers, contractor and engineer for the new power plant for the N. Y., P. & O. Dock Co., has awarded the contract for the building to HENRY G. SLATMYER. It is to be erected on River St. and is to be 115 × 87 ft.

LAFAYETTE, IND.—Plans have been ordered for a $50,000 addition to the Wabash Valley Traction Co.'s power plant in this city. New machinery and equipment also will be installed.

MARINETTE, WIS.—A $600,000 water power company will be organized in Oshkosh by E. O. Joslin, E. T. Joslin, Frank Joslin, C. A. Hartley and J. A. Powers, of Oshkosh, and Frank Green, of Chicago, to develop the High Falls and Johnson Falls on the Peshtigo River. Over 6,000 HP. will be developed and transmitted to Marinette, Menominee, Green Bay and probably Oshkosh. Estimated cost, $1,000,000.

DECORAH, IOWA.—Russell S. Feurtado, Consult. Engr., 901-2 Great Northern Bldg., Chicago, Ill., has prepared plans and specifications for a solid cement concrete dam for the Upper Iowa Power Co., to take the place of the Heardsley type of reinforced concrete dam which was designed by the Roberts & Abbott Co., of Cleveland, and which the company found impracticable to build. The foundations for the dam are now in and it is proposed to carry the work to completion this winter by housing same with canvas and using salamanders to keep the work from freezing. The dam will be 30 ft. high and 107 ft. long and will be provided with spillway and flood gates, and is being built on a sandy bottom. Electricity generated will be transmitted to Decorah for use there.

HUTCHINSON, KAN.—The stockholders of the Interurban & People's Water, Light & Power Company have accepted the franchise granted by the City Council and will expend $47,000 in improvements.

HUBBARD CITY, TEX.—Union Central Light & Ice Co. has purchased the Hubbard City Light & Power Co.'s plant and will overhaul, rebuild and improve the service and equipment. W. A. Bass is Pres.

MARSHALL, TEX.—The City Council has granted a franchise to W. B. McCormick and Sam. S. Hunter, of Shreveport, La., to lay mains and supply the town with natural gas. The gas will be piped from the Caddo oil fields.

ASPEN, COLO.—Bids probably will be received March 1, 1907, by the Roaring Fork Electric Light & Power Co. for the erection of a plant for power purposes. Three 450-KW., 11,000-volt, 3-phase, 60-cycle generators, direct-connected to water-wheels under a 500-ft. head will be required. C. E. Doolittle is Mgr., at Aspen.

SPOKANE, WASH.—The Big Baldy Mining & Milling Co. will erect a power plant on Crooked Creek to develop 1,000 HP. Estimated cost, $50,000. E. Wegner is Mgr.

EUREKA, CAL.—Henry Meyers, Arch., 532 Market St., San Francisco, is preparing plans and specifications for a new gas works in this city. The new plant is to be located on land adjoining the site of Station B, at the foot of Whipple St. It will be a steel frame building, 22 ft. high, 40 × 65 ft. Two gas generators, each 9 × 12 ft. in diameter, with a superheater 6 × 24 ft. high which will produce 400,000 ft. of gas daily. Estimated cost, $26,000.

REDDING, CAL.—The plant of the Redding Gas Co., which is owned by the Northern California Power Co., is to be greatly enlarged. E. V. D. Johnson is Mgr., at Redding.

STREETSVILLE, ONT.—A municipal electric light plant is to be erected here.

OTTAWA, ONT.—The Civic Commission will ask for legislative power to borrow $500,000 for the purchase and development of a civic power plant, or for authority to lease or purchase electric power for a municipal plant.

WINNIPEG, MAN.—The city has accepted the bid of BABCOCK & WILCOX CO., Ltd., for two 250-HP. water-tube boilers complete, at $14,750. F. Cambridge is City Electrician.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

YORK VILLAGE, ME.—E. B. BLAISDELL, York Village, Maine, has been awarded the contract for constructing a bridge over the York River. Cost, $39,500.

NIANTIC, R. I.—A $400,000 drawbridge is to be built by the New York, New Haven & Hartford R. R. Co. at Niantic over an arm of Long Island Sound during the coming year. The present swing bridge was erected 16 years ago and is in good condition, but is too light for the big locomotives to be run on the Shore Line between Boston, Providence and New York. The new bridge at Niantic will be of the roller lift type and will be double-tracked. Six piers will be required to carry the superstructure. W. H. Moore, New Haven, Conn., is Engr. of Bridges.

PATERSON, N. J.—Plans have been prepared for a bridge over the Passaic River at Straight St., to cost about $36,000. The plans call for a single-span lattice girder structure 252 ft. long in the clear.

PHILADELPHIA, PA.—George S. Webster, City Hall, is preparing plans for a 3-span bridge over railway tracks at 31st and Columbia Ave. Estimated cost, $60,000. He is also preparing a 5-span steel and reinforced concrete bridge at Belmont and Grand Aves. Estimated cost, $110,000. John R. Hathaway is Dir. Dept. Pub. Wks.

WILLIAMSPORT, PA.—Bids were opened Dec. 1 for construction of the Campbell St. undergrade crossing. Four bids were received and they approximated as follows: The Gleason Co., of Waverly, N. Y., $30,400 for the whole contract, of which $12,400 is for substructure and $18,000 for an ordinary steel bridge. Busch & Stewart, Williamsport, for substructure only, $15,846. New Jersey Bridge Co., $18,000 for an ordinary bridge, $28,000 for trough structure. No bid for substructure. Higgins & Co., $20,617 for substructure, $21,050 for bridge without trough, and $29,840 for trough bridge.

SCRANTON, PA.—It is reported that the construction of a viaduct connecting North Scranton and Scranton, a bridge over Lackawanna River at Lackawanna Ave., and a bridge at Cedar Ave., are contemplated. Henry Jifkins is Ch. Engr. Dept. Pub. Wks.

PETERSBURG, VA.—We are officially advised that nothing definite has been done in regard to constructing bridge at the city limit, Fleet St., over the Appomattox River. R. D. Budd, City Engr., will give any further information to inquirers upon request. G. B. Gill is City Audr.

MATOACA, VA.—The Matoaca Highway & Bridge Co. has been chartered here. J. Bolling Jones is Pres., Petersburg; R. E. Long, Vice-Pres.; C. T. Wilkinson, Secy. and Treas. John A. Seay, S. A. Mann, Jr., are Directors, Matoaca. Capital $10,000. It proposes to build a toll bridge across the Appomattox River.

MACKEY FERRY, N. C.—The Norfolk & Southern R. R. Co. has applied for permission to alter its plans for the proposed drawbridge, which is to be built over Albemarle Sound. The structure is to have two openings each 140 ft. wide instead of 70 ft. as originally planned. J. A. Barron, Berkley, Va., is Supvr. of Bridges and Bldgs.

GREENVILLE, S. C.—It is reported that L. P. Slattery, City Engr., writes that it is proposed to construct a bridge over Reedy River, at a cost of $15,000. It will be of reinforced concrete, four spans, 60-ft. wide, with two walks, two car tracks and two driveways. Total length, 240 ft

CULLMAN, ALA.—We are officially informed that a bridge will be built over Eight Mile Creek, 1½ miles from railroad, on the Cullman and Joppa road. It will be a deck through or semi-through structure built on cylinders or on concrete foundations. There will be three 100-ft. spans and the bridge will be 18 ft. wide, with a capacity of 80 lbs. to the sq. ft. The estimated cost of superstructure and substructure are $5,500 and $2,100 respectively. No date has been decided upon for receiving bids. Plans of four types will be submitted to the County Commissioners for approval on Dec. 24. Robert R. Pollak is County Surv.

MEADVILLE, MISS. Franklin County will hold an election Jan. 22, 1907, voting on the proposition to issue bonds to the amount of $60,000 for the purpose of building several important bridges.

MEMPHIS, TENN.—Memphis St. Ry. Co. has proposed to H. T. Bruce, Comr., that it will construct a bridge, the full width of Madison St., over the Southern Ry. tracks, provided the city and the Southern Ry. Co. each pay one-third. The total cost of the structure will be $20,000. E. W. Ford is Gen. Mgr.

TOLEDO, OHIO.—Bids are asked by the Auditor of Lucas County until Dec. 27 for the construction of the superstructure and substructure of a bridge on County Road, No. 468, over Blue Creek. J. W. Kerr, L. B. Bailey, Frank Wortsmith, County Commissioners.

NAPOLEON, OHIO.—The proposition for building a new river bridge at this place over the Maumee River, for $70,000, has been favorably voted upon. The old bridge now in use will be put up across the Maumee River seven miles below Napoleon.

GRANVILE, OHIO.—The W. T. Rice Engineering Co., 722 Society for Savings Bldg., Cleveland, is preparing plans and will advertise for bids in about 60 days for construction of a steel and concrete bridge, with a 125-ft. span, at Granville.

INDIANAPOLIS, IND.—The Park Board has ordered plans and will soon ask for bids for the construction of a road bridge in Garfield Park, and a road bridge in Brookside Park, and a foot-bridge in Spades Park. The Board also will receive bids for the erection of a retaining wall along the north bank of Fall Creek between Illinois and Capitol Aves. The bridges will be of stone and concrete 39 ft. wide and 80 ft. long.

MANISTEE, MICH.—Bids are asked until 2 p. m., Jan. 4, by the Manistee Township Board, at Eastlake, Mich., for repairing an old 100-ft. span bridge and constructing a bridge with a 50-ft. span, to be built of reinforced concrete. (Advertised, Engineering News.)

CHICAGO, ILL.—Bids are asked until Dec. 21 by the Department of Public Works for furnishing material and constructing the superstructure of the North Halsted St. bridge over the North Branch Canal. William L. O'Connell is Comr.

ARCOLA, ILL.—The contract for constructing a bridge over Okaw River is stated to have been awarded to the ATTICA BRIDGE CO., of Attica, Ind., for $46,000.

JOLIET, ILL.—The Joliet & Southern Traction Co. has awarded contract to the JOLIET STEEL CONSTRUCTION CO. for constructing a bridge at Ruby St. Lee D. Fisher is Ch. Engr.

YORK, NEB.—Bids are asked by the County Clerk until Jan. 7 for the construction of wooden or steel bridges that may be built in York County.

SIOUX FALLS, S. DAK.—Surveyors of the Great Northern Ry. Line have been at work locating the site of approaches for a steel bridge which that road will build across the Sioux River at South Sioux Falls. G. A. Casseday is Bridge Engr., St. Paul, Minn.

KANSAS CITY, MO.—C. H. Cartlidge, Bridge Engr. Chicago, Burlington & Quincy Ry. Co., Chicago, Ill., writes us that "there is no intention of rebuilding the Kansas City bridge in the near future. Press reports are entirely without foundation."

ST. LOUIS, MO.—The City Council has appropriated $3,500,000 for municipal bridge and $1,000,000 for bridges and viaducts in general.

LOS ANGELES, CAL.—The City Council has decided to construct a bridge to cost about $40,000, over the Arroyo de los Posos at Macy St. It is also proposed to build a bridge across the Los Angeles River at Seventh St. at a later date.

OROFINO, IDAHO.—Surveys have been made for proposed bridge over Clearwater River, Spokane. The bridge will be 551 ft. long and will be supported by eight tubular concrete piers. A. R. Noot, of Denver Government Engineering Service, had charge of surveys.

McELWAIN, N. B.—The Public Works Department, Fredericton, N. B., has awarded to ALBERT FAWCETT, Temperance Vale, N. B., the contract for constructing the McElwain bridge in York County, and to R. G. LOGAN, Gibson, the contract for Tungs bridge, in Charlotte County.

HAWKSHAW, N. B.—WHITMAN BREWER, St. Mary's Ferry, N. B., has contract to construct a bridge here, at $34,000.

CHARLOTTETOWN, P. E. I.—L. B. McMillan, Secy. Pub. Wks., is asking for bids for rebuilding Scott's bridge at Bannockburn, Queens County.

OTTAWA, ONT.—Among the Federal appropriations to be granted by the Dominion Parliament for the coming year is $12,000 for repairs to bridges over the Ottawa River, the Slides and the Ridean Canal at Ottawa.

VANCOUVER, B. C.—A bridge is to be constructed across the Squamish River by the Provincial Government to cost $7,000.

VICTORIA, B. C.—It is reported that the Canadian Pacific Ry. Co. has made an appropriation of $132,000 to be divided to pay for the cost of making fills, putting in concrete arches and replacing temporary wooden structures with steel spans on the Esquimalt & Nanaimo Ry. Contracts have already been let for half-deck plate girder bridges each 40 ft. long.

NICOLA, B. C.—The Government has promised to build a new bridge across the Nicola River here to cost $4,500. A. W. Strickland, Nicola, B. C., is interested.

MILLSTREAM, B. C.—The Canadian Pacific Ry. Co. will erect a bridge at Millstream, at a cost of about $30,000. C. E. Cartwright is Div. Engr., Vancouver, B. C.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

FORT ETHAN ALLEN, VT.—The contract for the erection of a veterinary stable here has been awarded to PENNINGTON & BUTLER, of Plattsburg, N. Y., at $33,217.

DUNKIRK, N. Y.—Contracts have been let to rebuild St. Hedwig's Roman Catholic church here to MR. SCOTT, of Brocton, N. Y.

NEW YORK, N. Y.—It is reported that the Robert Gair Co. will expend $125,000 in erecting an 8-story warehouse, 231 × 100 ft., at Washington and Front Sts., in Boro. of Brooklyn. W. Higginson, 21 Park Row, is Arch.

Plans have been prepared by R. T. Rasmussen, Arch., 30 Graham Ave., Brooklyn, for the erection of two 5-story brick stores and tenements to be erected at Myrtle and Sumner Aves. Estimated cost, $100,000.

Bids are asked by Theodore A. Bingham, Police Comr., Police Dept., until 10 a. m., Dec. 17, for the erection of the new stationhouse, prison and stable for the 19th Precinct, on West 30th St., 263 ft. easterly from Seventh Ave., Boro. of Manhattan.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, until 11 a. m., Dec. 17, for installing heating and ventilating apparatus in public school 90, on 147th and 148th Sts., near Seventh Ave., Boro. of Manhattan; also in addition to public school 121, on East 103d St., near Second Ave., Boro. of Manhattan; and for alterations in public school 68 annex, at Myrtle Ave. and Covert St., Ridgewood Heights, Boro. of Queens.

Schwartz & Gross, Archs., 35 West 21st St., have completed plans for a 6-story apartment house to be erected for George W. Levy at Riverside Drive and 95th St. Estimated cost, $250,000.

The W. J. Galway Bldg. Co. has filed plans for a 10-story loft building, to be erected at 138-140 West 17th St. Estimated cost, $175,000. George H. Anderson, 945 Sixth Ave., is Arch.

YONKERS, N. Y.—The contract for a hospital building has been awarded to MEAD, MASON & CO., Tremont Bldg., Boston, Mass. Kendall, Taylor & Stevens, 93 Federal St., Boston, Mass., are Archs. Estimated cost, $100,000.

SYRACUSE, N. Y.—The Onondaga County Milk Association will erect a 6-story apartment house on East Onondaga St. near East Genesee St. at a cost of $200,000.

The Leavenworth Apartment Co. has awarded to the SYRACUSE BRIDGE CO. and HEFFERMAN & SON the contracts for an apartment house to be erected on James St. It is to be an 8-story steel reinforced concrete, brick and stone building, 82 × 264 ft., of fireproof construction. Estimated cost, $300,000. Charles E. Colton, 502 Kirk Bldg., is Arch.

PHILADELPHIA, PA.—Bids were opened Dec. 5 at the office of James Knox Taylor, Supervising Arch. of the Treasury, Washington, for installing an elevator in the Custom-House and Post-Office Building, Philadelphia, Pa., as follows. Marine Engine & Machine Co., New York, $7,156; March 5, 1907. Otis Elevator Co., 17 Battery Place, New York, $10,960; May 2, 1907.

Bids are asked by C. M. Autenrieth, Arch., 410 Walnut St., until Dec. 15, for the erection of a 5½-story store building, 80 × 106 ft., of brick and steel, to be erected at 701-7 Market St. Estimated cost, $150,000. Lit Bros., owners.

YORK, PA.—Bids are asked by B. F. Willis until Dec. 24 for a brick, concrete and steel jail to be erected here. Two 45-HP. boilers will be required.

BALTIMORE, MD.—Plans are being prepared by Simonson & Pietsch, Archs., American Bldg., for a 1-story reinforced concrete car-barn, 300 × 280 ft., to be erected at North Ave. and Gay St. for the United Railway & Electric Co. Estimated cost, $150,000.

WASHINGTON, D. C.—G. F. Bodley, Arch., of London, Eng., and Henry Vaughn, Arch., Boston, will prepare plans for the cathedral to be erected here at a cost of $2,000,000. It is to be of the Old English Gothic design.

Bids are asked until 2 p. m., Dec. 22, at the office of Building for National Museum, Library of Congress, Washington, for 145 tons of steel girders, beams and roof truss for the south pavilion of the new building for the National Museum in this city.

John Mariner, of Norfolk, Va., will erect an office building to cost $140,000 at 13th and G Sts., N. W.

JAMESTOWN, VA.—GEORGE MOORE & SON, Marshall, Tenn., have been awarded the contract, at $227,050, to erect the exposition buildings for the U. S. Government.

CHARLESTON, S. C.—Scale of offers received under advertisement of the Bureau of Yards and Docks, Navy Dept., dated Oct. 30, 1906, for supplying and installing electric elevator and elevator well in building No. 5, Navy-Yard, Charleston, S. C. (Specification No. 1517). Bids received until 11 o'clock a. m. on Dec. 1, 1906: Otis Elevator Company, 17 Battery Place, New York, N. Y., Item 1, $6,850.

ATLANTA, GA.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Jan. 10, 1907, for construction of foundations for U. S. post-office and court-house.

JACKSON, MISS.—R. H. Hunt, Arch., Eighth and Broad Sts., Chattanooga, Tenn., is preparing plans for an 8-story hotel to be erected here on the site of the old Spengler House, opposite the old Capitol Building. Estimated cost, $125,000. The contracts will be awarded some time in January.

COVINGTON, LA.—Bids are asked by C. Z. Williams, Mayor, until Dec. 29, for the erection of a school building here. Andrew J. Bryan, 708 Hennen Bldg., New Orleans, is Arch.

NEW ORLEANS, LA.—The Court-House Commission, Bernard McCloskey, Pres., will soon have new working plans for erection of the proposed court-house to cost $1,000,000. W. A. Freret, of New Orleans, and P. Thornton Marye, of Atlanta, Ga., will submit the new plans.

SHREVEPORT, LA.—Bids will be received about Dec. 20 for the erection of a 6-story bank and office building of steel frame construction, to be erected by the Continental Bank & Trust Co. Estimated cost, $150,000.

CHATTANOOGA, TENN.—R. H. Hunt, Arch., Eighth and Broad Sts., has submitted plans for the erection of a 3-story city hall, 112 × 140 ft., and to cost $225,000, to occupy one-half of the city lot, the other half to be occupied by an auditorium to cost $125,000. The other plans call for a 3-story building, 86 × 200 ft., to cost $300,000.

FISHERVILLE, KY.—It is reported that Clarence C. Hialt, Louisville Trust Bldg., Louisville, will erect a $100,000 building here.

FRANKFORT, KY.—Bids were received Dec. 4 by the State Capitol Commission for installing electric wiring and elevators and heating and ventilating system in the new State Capitol at Frankfort, Ky. Bids were asked for in three sections, as follows: Sec. 1—Electric conduit and wiring, telephone and messenger call systems, etc. Sec. 2—Steam and hot blast system and mechanical ventilation, water piping, etc. Sec. 3—Electric passenger elevator system. The following bids were received: Sec. 1—Harry I. Wood & Co., Louisville, Ky., $23,963; Hatfield Electric Co., Indianapolis, Ind., $20,491; Sandborn-Marsh Electric Co., Indianapolis, $17,483. Sec. 2.—E. H. Abadie & Co., St. Louis, Mo., $57,443; C. H. Sandborn, Boston, Mass., $62,400. Sec. 3—American Machine Co., Louisville, $11,500; Warner Elevator Co., Cincinnati, $9,925; Marine Engine & Machine Co., New York, $9,320; Otis Elevator Co., Chicago, $8,400. On entire contract—JOSEPH McWILLIAMS & CO., Louisville, Ky., $76,715 (awarded contract); Peck-Williamson Co., Cincinnati, $88,242.

LEXINGTON, KY.—Contracts will be awarded about Jan. 1 for the erection of an 8-story steel and terra cotta addition to the Phoenix Hotel here. It is to be of fireproof construction and will cost about $250,000. Steam heating and electric light plant, electric elevators and ice plant will be required. Richards, Bufford & McCarthy, 63 The Ruggery, are Archs. Chas. Seelback is Mgr., at Lexington. Noted in issue of Nov. 22 that contracts would be awarded about Dec. 1.

INDIANAPOLIS, IND.—Bids are asked by the Merchants' Bldg. Co. for the erection of a 12-story business and office building to be erected at Washington and Merid Sts. J. P. Frenzel is Pres.

PORTLAND, IND.—The School Board has taken steps toward the erection of a new high school building on the site of the present building, which has been condemned.

RICHMOND, IND.—Steps have been taken toward the erection of two new buildings for the Eastern Indiana Hospital for the Insane. Dr. S. E. Smith is Supt.

EVANSVILLE, IND.—It is reported that the Sisters of Providence have ordered plans prepared for a $100,000 academy, to be erected in this city.

JACKSON, MICH.—E. W. REED & CO., Detroit, Mich., have been awarded the contract for the erection of a high school building here for $84,695, exclusive of heating plant. The new building, complete, will cost $107,000.

CHICAGO, ILL.—It is reported that the GEORGE A FULLER CO., Marquette Bldg., has been awarded the contract for the erection of a 10-story building on Franklin and Congress Sts., for Kohn Bros., at a cost of $250,000.

D. H. Burnham & Co., Archs., 83 Wabash Ave., are receiving bids for the erection of a 10-story fireproof warehouse to be erected on Michigan St., between Kingsbury and Orleans Sts., for the John Mohr Boiler Works, 42 Illinois St. Estimated cost, $100,000.

Julian Barnes, Arch., 1117 Association Bldg., 153 La Salle St., let the plumbing to WILLS & SMITH, 5938 South Halsted St.; heating to PETER S. OLSON & CO., 47th St., east of Grand Boulevard, and roofing to M. W. POWELL, 204 Dearborn St., for a bank building to be erected at 643 West 63d St., for the first National Bank of Englewood. It will be 3 and 1-story, 52 x 150 ft., and cost $100,000.

CHICAGO, ILL.—D. H. Burnham & Co., Archs., Railway Exchange Bldg., have prepared plans for the erection of a hotel to be erected on Michigan Ave., between Hubbard and Peck Courts, for a corporation composed of local and eastern capitalists, represented by G. H. Gazley, Heyworth Bldg. It is to be a 15-story building, of steel construction. Estimated cost, $5,000,000.

H. R. Wilson, Arch., 218 La Salle St., is preparing plans for a 3-story apartment house to contain twelve apartments, to be erected at 53d St. and Woodlawn Ave., for himself. Estimated cost, $150,000. Bids will be received about Dec. 20.

J. E. O. Pridmore, Arch., First National Bank Bldg., 164 Dearborn St., has prepared plans for a 10-story warehouse, 60 x 100 ft., of reinforced concrete. Estimated cost, $100,000.

C. A. Eckstrom, Arch., Tacoma Bldg., 131 La Salle St., has awarded the general contract to F. P. NELSON & SON, 715 Chamber of Commerce Bldg., 138 Washington St., for a warehouse to be built at 815 to 873 West 14th St., for the National Warehouse Co., 143 Dearborn St. It will be 2 and 3-story, 122 x 447 ft., have concrete foundation, superstructure of brick, gravel roof, metal skylights, wiring for electric light, and cost $200,000. The same architect let the carpentry to F. P. NELSON & SON, 715 Chamber of Commerce Bldg.; iron work to the HANSELL, ELCOCK CO., 23d Place and Archer Ave., and the pile foundation to WALSH & MASTERSON, 95 Clark St., for a mercantile building to be built at 217 to 221 East Washington St., for John P. Wilson. It will be 6-story, 60 x 182 ft., have pile and concrete foundation, superstructure of brick, gravel roof, steam heat, wiring for electric light, and cost about $100,000. H. & J. Ericson, 84 La Salle St., has the masonry, and other contracts are still to be let.

CHICAGO, ILL.—The County Board has awarded the contract for the erection of the Juvenile Court-House and Detention Home to HENRY GILSDORF SONS CO., 163 Rand St., for $120,000.

EVANSTON, ILL.—The University Guild has accepted an offer of the trustees of the Northwestern University to provide a site on the University Grounds at Orrington Ave. and University Place. The Guild will erect on the site a 3-story art museum and club-house to cost about $100,000.

MILWAUKEE, WIS.—It is reported that Kirchoff & Rose, Archs., 201 Grand Ave., expect to have plans ready early in December for the Majestic Theatre, which is to be erected by Schlitz Brewing Co., at Grand Ave. and Second St., at a cost of about $700,000. The plans are to be for a 7-story building, the upper floors to be used for offices or hotel purposes.

DULUTH, MINN.—Plans will be prepared by J. A. Wagenstein, Arch., 401 Providence Bldg., for the erection of a new court-house in this city. Estimated cost, $500,000.

The Duluth Elks propose to erect a 7-story club-house to cost $120,000. It will be located on First St. adjoining the Board of Trade Bldg.

C. W. and G. L. Rapp, 100 Washington St., Chicago, are making working drawings for a theater which F. A. Sater will build in this city, to cost $150,000. It will front 65 ft. with a depth of 160 ft. The front will be of stone and brick and the interior will be fireproof. There will be a parquet, balcony and gallery. It is to have a seating capacity of 1,600.

ST. PAUL, MINN.—The Minnesota Transfer Railway Co. will erect a large depot on a plot of ground located between Charles St. and University Ave. on the north and south, and Cleveland and Raymond Aves. on the east and west. The depot will be about 1,400 x 110 ft. wide, and will cost approximately $75,000.

COLUMBIA, MO.—J. A. CARTER, of this city, has been awarded the contract for the erection of the new court-house, at $100,000. J. H. Felt & Co., 701-3 Shukert Bldg., Kansas City, are Archs.

KANSAS CITY, MO.—Plans have been prepared by Jarvis Hunt, Arch., Monadnock Block, Chicago, Ill., for the erection of a terminal station to be erected in this city for use of all the railroads entering the city. It is to be of steel and brick. Estimated cost, $1,000,000 to $1,500,000.

HOUSTON, TEX.—The contract for the erection of the St. Paul Methodist church has been awarded to the J. W. SLAUGHTER CONSTRUCTION CO. and THEO. BEILHARZ, jointly, of Dallas, for $175,000.

STAMFORD, TEX.—Bids are asked until Dec. 20 by Jerome Duncan, Pres. Stamford Collegiate Institute, for the erection of a main building of Stamford Collegiate Institute. It is to be a modern stone or brick building, 125 x 105 ft.

DALLAS, TEX.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Jan. 15, 1907, for construction of extension, including heating apparatus, etc., to the U. S. post-office at Dallas, Tex. (Advertised, Engineering News.)

WALLA WALLA, WASH.—Henry Osterman, Arch., 508 Lincoln St., has completed plans and specifications for the Motter-Wheeler Bldg., which is soon to be erected at Third and Alder Sts. Estimated cost, $100,000.

KLAMATH AGENCY, ORE.—Bids are asked by C. F. Larrabee, Act. Comr. Indian Affairs, Dept. of Interior, until 2 p. m., Dec. 28, for the erection of a mess-hall, water and sewer system, and steam heat.

SALEM, ORE.—The County Commissioners have decided to remodel and repair the court-house. The proposed improvements include an elevator, heating plant and new jail.

LOS ANGELES, CAL.—The Van Vranken-Hunter Realty Co. has purchased the site at Seventh and Hill Sts. on which it will erect a 10-story steel fireproof building at a cost of $250,000.

LONG BEACH, CAL.—Munson & Earhart, Archs., of this city, are preparing plans for the erection of a 6-story apartment hotel to be erected on the east side of the pier. Estimated cost, $150,000.

OAKLAND, CAL.—J. P. Edoff will erect a $100,000 building on Broadway, near 17th St., which will be occupied by the Braley-Grato Furniture Co.

SAN FRANCISCO, CAL.—The report of the Special Committee of the Board of Trustees of the Chamber of Commerce on insurance settlements after the big fire, announced on Dec. 7 that "the total area burned was about 3,000 acres, or about 4.7 sq. miles, containing 520 blocks and about 25,000 buildings; one-half of these were residences. The amount of insurance covering property in the burned district was approximately $235,000,000 (estimated). The value of buildings and contents destroyed must have been about $350,000,000. In spite of the nearness in time of the Baltimore and Toronto conflagrations the companies will finally have paid undoubtedly in the neighborhood of 80 per cent. of the amount of insurance involved. At Chicago there was 50 per cent. paid, in Baltimore 90 per cent."

Francis T. Shea, Arch., 26 Montgomery St., has prepared plans for the erection of a $140,000 class A building at Clay and Montgomery Sts. It is to be an 8-story building, to be erected by the Bank of Italy.

QUEBEC, QUE.—The Canadian Pacific Railway hotel here will be greatly extended and remodeled throughout at a cost of over $1,000,000. Hayter Reid is Supt. of Hotels, Montreal, Que.

TORONTO, ONT.—Darling & Pearson, Archs., have been instructed to prepare plans for the new civic hospital. Estimated cost, $1,000,000.

Bids are asked by Emerson Coatsworth, Chn. Bd. of Control, until noon, Dec. 17, for the erection of a grand-stand, also of a horticultural building, on the Exhibition Grounds, Toronto.

TORONTO, ONT.—The Toronto Industrial Exhibition Association has decided to erect a new horticultural building, at a cost of $110,000; also a new fireproof grandstand, to seat 12,000, at a cost of $175,000. Dr. Bell is Asst. Mgr. of the Assn.

SASKATOON, SASK.—Plans prepared by W. W. LaChance, Arch., have been accepted for the new municipal hospital to be erected here. Estimated cost, $100,000.

MANILA, P. I.—Leprosy Hospital.—See under U. S. Possessions and Cuba.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Dec. 26, by John H. O'Brien, Comr. of Water Supply, Gas and Electricity, for furnishing hydrants, cocks, pipe and other supplies to the Department.

EAST WILLISTON, N. Y.—The Wheatley Hills Water Co., of East Williston, has been incorporated to supply water to Roslyn, Albertson, East Williston, Westbury and other places; capital, $25,000. Directors: Charles Crosby, 1 West 34th St., New York, N. Y.; and H. P. Haas, Frank T. Lauinger, E. R. Reno, and others, of Pittsburg, Pa.

BUFFALO, N. Y.—We are officially advised that Francis G. Ward, Comr. Pub. Wks., has awarded contract to the SNOW STEAM PUMP WORKS, 144 Liberty St., New York, for a second centrifugal electricity driven pump of 25,000,000 gallons daily capacity. The pump will cost $30,490.

ROCHESTER, N. Y.—The State authorities have approved the plans of the city of Rochester for laying a line of 36-in. c.-i. pipe underneath the Erie Canal in this city, in connection with the improvement of the city's water-works system. The pipe will be laid along Monroe Ave., and will pass underneath the canal at this point. Contracts will be let and the work started very shortly. Edwin A. Fisher is City Engr.

BUFFALO, N. Y.—Four bids were opened recently by Francis G. Ward, Comr. Pub. Wks., for new steam mains at the pumping station. The J. W. Danforth Co., 70 Ellicott Sq., with a bid of $13,500, was lowest. T. McEvoy & Son bid $13,600, and Farrar & Trefts bid $13,[illegible]. Daniel Burgmaster's bid was $16,500.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Dec. 26, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and erecting eight water-tube boilers in the remodeled Ridgewood (North Side) Pumping Station, Atlantic Ave., near Logan St., in the Borough of Brooklyn.

MEADVILLE, PA.—The Council has passed the resolution authorizing the Superintendent of Water-Works to procure bids for an auxiliary water pump of 2,500,000 gallons daily capacity.

McKEESPORT, PA.—We are officially advised that Alexander Potter, 143 Liberty St., is preparing plans and estimates for the proposed softening and filtration plants at McKeesport. The appropriation is $200,000. The supply will be taken from the Youghiogheny River. T. H. Verner is Supt.

PHILADELPHIA, PA.—Bids are asked until noon, Jan. 4, 1907, by John R. Hathaway, Dir. Dept. Pub. Wks., for installing pumping engines for the Lardner's Point pumping station, Pump House No. 3. (Contract No. 93.) Specifications and bidding sheet are on file at office of Engineering News, New York, N. Y.

Bids are asked until noon, Dec. 19, by John R. Hathaway, Dir. Dept. Pub. Wks., for furnishing special steel castings for the Bureau of Filtration, Philadelphia. (Contract 100.) Plans, specifications and bidding sheet are on file at office of Engineering News, New York.

BALTIMORE, MD.—Bids are asked until Dec. 19, by the Board of Awards, for furnishing the Water Board with supplies for the year 1907. This includes lumber, woods, oils, brick, cement, cast-iron work, lead, iron and cast-iron pipe, fittings, brass castings, feed and water meters, pipe fittings, valves, etc. Alfred M. Quick is Water Engr.

VIRGINIA BEACH, VA.—It is reported that the city will construct a water-works system. W. J. Wright is Treas.

GRAHAM, VA.—W. D. Roberts and associates will install a filtration plant of about 25,000 gallons daily capacity.

CLARKSBURG, W. VA.—The Water Committee of the Board of Directors of the Clarksburg Board of Trade will engage the services of a hydraulic engineer to make a survey of the water-works system and report the needs and improvements necessary to give the city an adequate system.

PINEVILLE, N. C.—The Dover Yarn Mills, at Pineville, will at once install a complete system of water-works for their mill village. Surveys and plans have been made, and the water is to be obtained from a gang-well system, insuring great purity and clearness at all times. Mr. G. G. Hubbel, of Charlotte, is the engineer in charge of this work.

CHARLESTON, S. C.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to SIMONS-MAYRANT CO., 16 Broad St., Charleston, S. C., contract for construction of a pump well, house and culverts, Dry Dock No. 1, Navy Yard, Charleston, at $65,293.

BRUNSWICK, GA.—CHICAGO BRIDGE & IRON CO., 105th and Throope Sts., Chicago, Ill., has contract to construct 100,000-gallon water tank for the Atlanta, Birmingham & Atlantic R. R. Co. at its terminals. It will be constructed of ferro-concrete, and will be 132 ft. above the terminal buildings. The Fore River Shipbuilding Co., of Quincy, Mass., has charge of the construction work.

WAYNESBORO, GA.—Bids are asked by the Board of Water and Light Commission, Waynesboro, until 6.30 p. m., Dec. 18, for material and machinery only for water and light plant, comprising one 150-HP. boiler, one 125-KW. alternator, etc., one Corliss engine, tower and tank, hydrants, and c.-i. pipe. Specifications can be procured from the Chairman of the Water and Light Commission, Waynesboro, Ga. J. B. McCrary & Co. are Engrs., Atlanta, Ga.

GADSDEN, ALA.—The city has granted R. A. Mitchell the right to lay pipes in streets and alleys for furnishing the city with water.

NEW ORLEANS, LA.—Bids are asked until 3 p. m., Jan. 23, 1907, by the Sewerage and Water Board, for furnishing about 50 miles of c.-i. pipe from 4 to 42 ins. in diameter; also about 1,100 tons of specials. F. S. Shields is Secy. of Bd.; George G. Earl is Gen. Supt.

CINCINNATI, OHIO.—Bids are asked until Dec. 24 by the Board of Public Service for dismantling, removing and disposing of Redemption Engine No. 6 at the Front St. pumping station of the city water works. M. J. Keefe is Clk.

WEST BRANCH, MICH.—This city will construct a new system of water-works. A large volume of water has been obtained by sinking artesian wells at an elevation of 160 ft. above and a distance of about 1½ miles from the city. John H. Bloomshield, of Bay City, is Consult. Engr.

BOURBONNAIS (Kankakee post-office), ILL.—Bids are asked until 6 p. m., Dec. 22, by the Board of Local Improvements, for laying water mains and placing hydrants, valves and boxes. (Advertised, Engineering News.)

OAK PARK, ILL.—The offer of the Chicago Suburban Water & Light Co., furnishing water and light in Oak Park, to sell its plant to the village, was rejected at a village board meeting held recently, and in place of buying the plant the board decided to build a water-works system of its own as soon as convenient. The proposed plant, according to plans and figures submitted by the engineering firm of George C. Morgan & Co., will cost $389,641.64. After a resolution had been passed favoring a village-owned water plant, the council was instructed to build the plant at any time the necessary funds could be raised.

MARSHFIELD, WIS.—The City Council is reported to have decided to sink 20 wells near the site of the proposed water-works, at a cost of $10,000.

MINNEAPOLIS, MINN.—Bids are asked until Dec. 21, for supplies for water-works construction during the season of 1907. We are officially advised that materials required are: 1,940 tons c.-i. pipe; 125 tons special castings; 177 valves; 140 hydrants, and 1,900 lin. ft. of steel pipe. Andrew Rinker is City Engr.; Ellis R. Dutton is Asst. City Engr.

PITTSBURG, KAN.—It is reported that it is proposed to construct water-works, at a cost of $40,000. Benjamin D. Fox, of Pittsburg, is Engr.; N. E. Wood is City Clk.

MITCHELL, NEB.—Bids are asked until 2 p. m., Jan. 24, 1907, by the U. S. Reclamation Service, at Mitchell, for supplying 125,000 lbs. steel bars for reinforcement of concrete. E. A. Hitchcock is Secy. (Advertised, Engineering News.)

HUNTLEY, MONT.—The Secretary of the Interior has granted an extension of time to June 1, 1907, to William D. Lovell, of Minneapolis, Minn., for the completion of Division 2, main canal, Huntley irrigation project, Mont.

SARCOXIE, MO.—On Nov. [illegible] the citizens voted affirmatively upon the question of issuing bonds amounting to $[illegible] for construction of water-works. F. O. Gustafsun.

COALGATE, IND. T.—City [illegible] voted affirmatively the proposed $4[illegible] issue for constructing water-works [illegible]werage.

DURANT, IND. T.—Bids a[illegible] until Dec. 18 for constructing wat[illegible]ks and sewer systems. The former w[illegible] about $15,000 and the latter $20,000. [illegible] Shannon is City Clk.

COMMERCE, TEX.—The City [illegible]mplates installing a water-works system [illegible] year. C. E. Randle is the City Secy.

HIDALGO, TEX.—It is reported [illegible] J. P. Campbell, of Concordia, Kan., [illegible] associates, have purchased 20,000 a[illegible] land in Hidalgo County for irrigation [illegible] will arrange at once for the installati[illegible] plant.

GRAND JUNCTION, COLO.—W[illegible] officially informed that on Nov. 28 [illegible] following bids were received for constru[illegible] Kannah Creek pipe line, and distributi[illegible]ystem, etc.: (a) Wire-wound wooden s[illegible] pipe; (b) continuous wooden stave pip[illegible] distributing reservoirs: Lumsden & [illegible]rdon, Grand Junction, (a) $280,074, (b) [illegible]5,164, (c) $83,105; Tiersway & Hamilton, [illegible]enver, (a) $265,089, (b) $260,000, (c) $64,0[illegible] American Light & Water Co., Kansas C[illegible], Mo., (a) $273,154, (c) $80,000; P. P. Ford, [illegible]enver, total cost, $339,331; Hanley & Ri[illegible], Topeka, Kan., (a) $271,700, (c) $81,000; [illegible]bbons, Hughes & Cramer, Denver, (a) $[illegible]72,501; Doyle & Schwartz, Colorado Sp[illegible], (a) $269,000, (b) $307,000, (c) $71,000. Willard Young and Frank C. Kelsey are En[illegible], Salt Lake City, Utah. No bids were ac[illegible]ted.

GREELEY, COLO.—A company is reported to have been incorporated at Greeley by W. E. Kinsella, O. R. Kerlee, D. J. March, and others, to construct a reservoir on Coal Creek, about 20 miles northeast of this city. It will cover over 500 acres of land and will furnish water to irrigate 30,000 acres.

NORTH YAKIMA, WASH.—The Secretary of the Interior has granted authority to the Reclamation Service to construct the dam at the outlet of Bumping Lake, Wash., by force account. This dam is to be used in connection with the Yakima irrigation project, and owing to its remoteness from railroads it apparently was not an attractive undertaking to contractors, for no bids were received for its construction when it was advertised recently by the Secretary of the Interior.

NORTH YAKIMA, WASH.—A board of consulting engineers of the Reclamation Service, which recently met in Portland, Ore., to open bids for the construction of about twelve miles of main canal in Tieton Canyon, near North Yakima, with diverting dam, headwork, tunnels, and other appurtenant structures, received but one proposal. This was submitted by THEODORE WEISBERGER, of North Yakima, for the work of Schedules 5-A, 6-A, and 7-A. The Secretary of the Interior has awarded Schedules 6-A and 7-A to Mr. Weisberger, and authorized the construction of Schedules 1-A, 2-A, 3-A, 4-A and 5-A by force account. Mr. Weisberger's contract amounts to $230,371, and calls for furnishing, distributing and laying concrete shapes in open canal, flumes and tunnels.

UMATILLA, ORE.—The Secretary of the Interior, at Washington, D. C., has executed a contract with THOMAS JAQUES, of Pilot Rock, Ore., for the construction and completion of about 15 miles of main canal and lateral ditches, Umatilla irrigation project, Ore., for $20,212. The work involves about 165,000 cu. yds. of excavation and must be completed by May 1, 1907.

KLAMATH AGENCY, ORE.—See under Buildings.

PORTLAND, ORE.—Bids are asked until 2 p. m., Dec. 26, at the office of U. S. Reclamation Service, Portland, for furnishing about 1,800,000 lbs. of steel bars for reinforcement of concrete. E. A. Hitchcock is Secy. (Advertised, Engineering News.)

REDDING, CAL.—The Redding Water Co. will expend about $35,000 to install an auxiliary water system for this town. The present reservoir capacity of the water company is 350,000 gallons, and this now will be increased to 1,000,000 gallons. The new reservoir will be located on a hill west of town, and a new pumping plant will be put in on the river near Jenny Creek.

BISBEE, ARIZ.—See under Sewers.

SALT LAKE CITY, UTAH.—The Secretary of the Interior has granted authority to the Reclamation Service to construct by force account a canal approximately three miles in length, to be used in connection with the power plant to be constructed for the generation of electricity at the mouth of Spanish Fork River, Strawberry Valley irrigation project, Utah.

LEWISTON, IDAHO.—We are officially advised that CALDWELL BROS. & CO., 115 Jackson St., Seattle, Wash., have contract to install triplex pump, etc., at Lewiston, at $7,665. John E. Nickerson is City Clk.

MONTREAL, QUE.—The Water Committee has recommended the expenditure of $2,000,000 to extend the water-works system. John R. Barlow is City Surv.

HULL, QUE.—Bids are asked until Dec. 17, for constructing an intake pipe, reaching about 450 ft. into the Ottawa River. Estimated cost, $18,000. F. M. Hamel is City Engr. M. Thibault is Mayor.

TORONTO, ONT.—C. H. Rust, City Engr., in a report on the fire protection in the northwest section of city, recommends that a new main be laid from St. George St. along Dupont and Van Horne Sts. and Royce Ave. to Dundas St. Estimated cost, $81,775.

MOUNT FOREST, ONT.—J. P. NOOMAN has secured contract, at $3,400, for constructing water system here.

WINNIPEG, MAN.—The CAMDEN IRON WORKS, Camden, N. J., has contract to supply this city with a quantity of water pipe and specials, at $45,947.

WINNIPEG, MAN.—At a recent meeting of the City Fire, Water and Light Committee it was decided to call for bids for 30 miles of c.-i. water piping, to mature March 1, 1907, and to be delivered between June 1 and Aug. 1. H. N. Ruttan is City Engr.

C. J. Brown, City Clk., is calling for bids for the supply of two 250-HP. water steam boilers for the city water-works.

ARCOLA, SASK.—Bids are asked until Jan. 2, by J. S. Bush, Secy., for an elevated steel water tank having a capacity of 60,000 imperial gallons, erected on a steel superstructure 40 ft. high; an elevated wood water tank having a capacity of 60,000 gallons, erected on a steel superstructure 40 ft. high.

WETASKIWIN, ALTA.—Paridis & Thorold, Consult. Engrs., Calgary, Alta., have prepared plans for a water-works system here, to cost $177,000, and a sewerage system, costing $91,000.

CALGARY, ALTA.—Bids are asked until Dec. 31, by H. E. Gillis, City Clk., for furnishing cement, lead pipe, corporation cocks, c.-i. water pipe and sewer pipe. R. E. Speakman is City Engr.

EDMONTON, ALTA.—P. P. Kelly, City Engr., has reported the proposed improvements to the civic water-works will cost $111,000, being made up as follows: Two 3,000,000-gal. turbine pumps with motors and auxiliary, $22,000; station, $9,000; excavation, intake pipe, filter, etc., $10,000; duplicate 16-in. pipe, $70,000. J. G. Kinnaird is Secy.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—WILLIAM KELLEY has secured the contract for constructing sewers in St. Nicholas and Myrtle Aves. in the Second Ward, Boro. of Queens, at about $393,744. Bids were received Dec. 3.

Bids are asked until noon, Dec. 27, by George Cromwell, Pres. Boro. of Richmond, for constructing a system of sewers and appurtenances in Sewerage District No. 6A, Arrochar Watershed, Fourth Ward, Boro. of Richmond, together with all work incidental thereto.

COHOES, N. Y.—The Common Council has decided to have a sewer constructed in Oliver St., between Locust and Maple Aves.

SCHENECTADY, N. Y.—The Board of Contract and Supply on Dec. 3 awarded to MILLAR & SON, of Utica, the contract for supplying 16,000 ft. of c.-i. pipe which is to be used in the construction of the outlet for the Mont Pleasant and Bellevue sewers. The price to be paid is $31.35 a ton.

MERCHANTVILLE, N. J.—Bids are asked until 3 p. m., Jan 12, 1907, by the Borough Council, for construction of a system of sanitary sewers. Plans are at the office of the City-Wastes Disposal Co., 156 Fifth Ave., New York, N. Y. A. W. MacCallum, 26 South Third St., Philadelphia, Pa., is Chn. Sewerage Com. (Advertised, Engineering News.)

GREENVILLE, PA.—We are officially advised that George H. Pierson, Consult. Engr., 52 Broadway, New York, N. Y., has been engaged to design small sewer system and separate sewage disposal plant for this town.

WASHINGTON, D. C.—The contract for constructing the following sewers in the District has been awarded to the WARREN F. BRENIZER CO., Second and O Sts., S. E., Washington: Sewer "A," in South Railroad Ave., between Pennsylvania Ave. and Nailor St., and in Nailor St., between South Railroad Ave. and the Eastern Branch, $3,281; sewer "B," in Nailor St., between South Railroad and Minnesota Aves., and in Minnesota Ave., between Nailor and 23d Sts., $4,511; sewer "C," in Minnesota Ave., between Harrison and 18th Sts., $2,223. Bids were presented also by John F. Talbert, L. R. Colbert, Edmund Saxton, and E. G. Gummel.

The contract for constructing the Ivy City trunk sewer was awarded on Dec. 5, upon the recommendation of D. E. McComb, Supt. of Sewers, to E. G. GUMMEL, whose bid was $40,358.

VIRGINIA BEACH, VA.—It is reported that a sewer system will be constructed by the city.

SUMTER, S. C.—The city will vote Dec. 18 on the issuance of $50,000 sewerage bonds. It is proposed to construct sewer system, to cost approximately $100,000. J. L. Ludlow, Winston-Salem, N. C., is Consult. and Superv. Engr.

SANDERSVILLE, GA.—It is reported that the city will issue $30,000 in bonds for a sewer system.

NEWPORT, KY.—J. B. McLANE & CO. have secured the contract for sewer works in Newport, at $14,748. J. B. Morlidge is City Engr. Peter J. Krebs is City Clk.

SHELBYVILLE, KY.—An engineer will be engaged at once to make survey, plans, specifications, etc., for the construction of sewer system. T. E. Bland is Mayor.

PORTLAND, IND.—It is reported that the Riggs & Sherman Co., 613 The Nasby, Toledo, Ohio, are preparing plans and estimates for sanitary and storm water sewers. N. S. Current is City Engr.

LANSING, MICH.—The City Council has ordered that plans be prepared for about 5,400 ft. of sewers.

BLOOMINGTON, ILL.—Bids are asked until Dec. 14, for pipe sewers 12 to 30 in. diam., on Front, Low, Moulton, Denver and Jackson Sts., and Morris Ave. Elmer Folsom is City Engr.

WOODSTOCK, WIS.—It is reported that plans have been completed for a sewer system, to cost about $80,000.

BURLINGTON, IOWA.—J. F. Winters, City Engr., is reported to have completed plans for a trunk sewer, to be constructed in Locust and Fifth Sts. It will be of 36-in. tile, about 11,930 ft. in length. Estimated cost, $25,000. Robert Kroppach is City Clk.

ST. PAUL, MINN.—J. M. THORNTON, of St. Paul, has secured the contract for constructing a sewer in Michigan St., for $4,583.

HIBBING, MINN.—Bids are asked until Dec. 18 at the office of Miles Gandsey, Village Recdr., for constructing about 14,729 lin. ft. 6 to 24-in. pipe sewer; 47 manholes; 13 flush tanks; 3,411 cu. yds. earth excavation; 2,681 cu. yds. Portland cement concrete in place, etc.

TOPEKA, KAN.—We are officially advised that contract for constructing sewer in Fourth Ward was awarded to M. W. GILMORE, on Dec. 3. J. H. Squires is City Clk. James F. McCabe is City Engr.

WICHITA, KAN.—Bids are asked until 5 p. m., Jan. 21, by R. N. Dorr, City Clk., for constructing Wichita Storm Water Sewer No. 5. Estimated cost, $318,000. A. Brown is City Engr. (Advertised, Engineering News.)

FAIRBURY, NEB.—We have been officially informed that new plans will be made for constructing sewers in Districts 4 and 5. The bids received Dec. 8 for this work were rejected. F. L. Rain is City Clk. W. W. Watson is City Engr.

OMAHA, NEB.—The NATIONAL CONSTRUCTION CO., George Parke, Mgr., has contract to construct the Mud Creek sewer, at $165,000.

ST. LOUIS, MO.—The City Council has appropriated $1,500,000 for construction of public sewers.

LITTLE ROCK, ARK.—We are officially advised that the bids received Dec. 1, for constructing 13,500 lin. ft. of 8 to 12-in. sewer, have been rejected on account of the unfavorable conditions for working during the winter. Estimated cost, $10,000. Theo. Hartman, Little Rock, is Des. Engr.

MARSHALL, TEX.—The City Council has appropriated $5,000 for the extension of sewerage system.

OKLAHOMA CITY, OKLA.—J. O. SEVERN is reported to have secured the contract for constructing sewers in Central Ave. and Second and Sixth Sts., at $12,003. W. C. Burke is City Engr.

DURANT, IND. T.—See under Water Supply and Irrigation.

LAMAR, COLO.—C. R. Beardsley, Engr., writes us: "I am now designing a system of sewers for this town and hope to have the work ready for bids sometime the first of the year. There will be about 13 miles of sewers from 8 to 24 ins., and possibly larger."

KLAMATH AGENCY, ORE.—See under Buildings.

SACRAMENTO, CAL.—The Board of Trustees is reported to have accepted plans and specifications for a sewerage system for the northeastern section of the city. The cost of the work to be done at present is about $10,000. George Randle is City Engr. M. J. Desmond is City Clk.

SAN JOSE, CAL.—Bids for sewer construction which were recently received were referred to Committee on Sewers and the City Engineer. Bids were as follows: Cotton Bros. & Co., $37,000; John McReynolds, $27,597; William Heefey, $28,950; Charles Wehner, $27,700; M. P. Glann, $36,378; all for the Second Ward. For Third Ward, M. P. Glann, $36,578; William Heefey, $22,690; C. Wehner, $22,000; Cotton Bros. & Co., $26,146; C. D. Vincent, $28,149. Charles H. Pieper is City Engr.

LOS ANGELES, CAL.—Bids were received Dec. 3 for constructing sewers in Los Angeles. For construction of the new Main St. storm sewer between Third and Sixth Sts., R. C. Lowell was lowest bidder, at $6,250.

BISBEE, ARIZ.—Bids are asked until 2 p. m., Jan. 15, 1907, at the office of the Warren Co. for constructing sewer system, sewage disposal plant and water system. Cleve W. Van Dyke, Bisbee, is Mgr.; A. R. Applegarth is Engr. (Advertised, Engineering News.)

BELLEVILLE, ONT.—It is reported that a complete sewerage system may be installed in Belleville.

LONDON, ONT.—The Board of Works has recommended that a by-law be submitted to the ratepayers for permission to extend the sewerage system, at a cost of $50,000.

DRAYTON, ONT.—A $10,000 drain is to be constructed in West Luther Township, about three miles in length. The drain in some places will be 9 ft. deep and about 17 ft. wide.

WETASKIWIN, ALTA.—See under Water Supply and Irrigation.

GARBAGE DISPOSAL.

NEW YORK, N. Y.—Plans, specifications and bidding sheet for constructing proposed refuse destructor at West New Brighton are on file at office of Engineering News, New York.

ROCHESTER, N. Y.—The Board of Contract and Supply on Nov. 26 awarded the new 5-yr. garbage contract to Titman & Cooper, of the EMPIRE REDUCTION CO., of Philadelphia, Pa., subject to the Aldermen approving the plan to locate the reduction plant within the city limits on a site to be sanctioned by the Health Officer. The contract price is $59,770 per yr., or $298,850 for the 5 yrs. The Aldermen seem to be against locating the plant within the city limits.

ELIZABETH, N. J.—We are officially advised that bids will be received in February for garbage disposal for a period of three years from March 1, 1907. Eight wagons with bottom dumps, having a capacity of 3½ cu. yds. each will be required. The average length of haul will be 1½ miles. Louis J. Richards is Health Officer.

PHILADELPHIA, PA.—Bids are asked until Dec. 17, by John R. Hathaway, Dir. Dept. Pub. Wks., for street cleaning.

PHILADELPHIA, PA.—Bids have been received by the Penn Reduction Co., Rothschild Bldg., for rebuilding its garbage crematory at 49th St. and Schuylkill Ave. The building will be of brick and steel, one story, 75 × 150 ft. and 40 × 100 ft.

CINCINNATI, OHIO.—A bond issue of $125,000 for the erection of a municipal garbage reduction plant on a site outside the city is provided for in an ordinance sent recently to the City Council by the Board of Public Service. It is also proposed to ask for bids for the removal of garbage by contract for a year, at the expiration of the contract in May with the Cincinnati Reduction Co.

MOLINE, ILL.—The following bids are reported to have been received on Nov. 19 for construction of a garbage incinerator: Lewis & Kitchen, 433 Wabash Ave., Chicago, $22,630, with brick chimneys, $21,350 with steel chimney; Decarie Co., $34,600, and Dixon Co., $23,000.

HALIFAX, N. S.—The City Engineer is investigating the possibilities of operating a garbage cremating plant as a fuel feeder for an electric lighting station, also the cost of constructing a septic tank.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

NORTH BRANFORD, CONN.—OLIN T. BENEDICT, of Pittsfield, Mass., is reported to have secured the contract for constructing 2,820 ft. of macadam road and 735 ft. of telford road in North Branford, at $5,234.

ROCHESTER, N. Y.—Contracts for paving at Rochester are reported to have been awarded on Nov. 28 by Board of Contract and Supply as follows: Orchard St., with Johnsonburg block, to H. N. COWLES, at $26,960, and New York St., with asphalt, to ROCHESTER VULCANITE PAVING CO., Alexander St. and Erie Canal, $5,389. Edwin A. Fisher is City Engr.

ALBANY, N. Y.—Bids are asked by Henry A. Van Alstyne, State Engr., Albany, until noon, Dec. 13, for additional work on the Delaware Turnpike, Section 3, Road No. 178, in Albany County.

BUFFALO, N. Y.—Bids are asked until 11 a. m., Dec. 21, by the Department of Public Works, for paving Main St., from Seneca to North Division Sts.; Morgan St., from Genesee to Niagara Sts.; Seneca St., from Babcock to Peabody Sts. Francis G. Ward is Comr. Dept. Pub. Works.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Dec. 24, by Joseph Bermel, Pres. Boro. of Queens, for regulating, grading, paving and laying sidewalks on various streets in the Borough of Queens.

CHESTER, PA.—The Borough Council is reported to have passed an ordinance providing for paving with sheet asphaltum, a portion of Fifth St.

MEADVILLE, PA.—Bids are asked until Dec. 18, by the State Highway Department, for constructing 3,555 ft. road in Summerhill Township, Crawford Co. Joseph W. Hunter is Comr., Harrisburg.

BALTIMORE, MD.—It is reported that the Sewerage Commission has adopted the recommendation of Calvin W. Hendrick, Ch. Engr., Bd. of Awards, for the construction of Jones Falls Boulevard. Mr. Hendrick will now prepare detail surveys, drawings and estimates for placing the conduits in the bed of the falls from Charles St. to Baltimore St.

NORFOLK, VA.—We are officially advised that only one bid, that of the Atlantic Bitulithic Co., Spartansburg, S. C., was received Dec. 3, by the Board of Control, for paving Marshall St. The bid was $2.25 a sq. yd. and was in excess of the appropriation, and therefore rejected. W. T. Brooke is City Engr.

BESSEMER, ALA.—The city is making arrangements for placing cement sidewalks on certain streets, amounting to about 12,000 yards. Bids for the work probably will be asked in the near future. William Hugh McEniry is City Engr.

NATCHEZ, MISS.—Kirkpatrick & Johnson, of Jackson, are making a general survey of the streets for the purpose of establishing grades preparatory to paving. Noted Nov. 29.

RAYNE, LA.—Contract for the construction of 40,000 sq. ft. of cement sidewalks and 7,000 ft. of brick curbing has been let to JOHN BIGLER, Bessemer, Ala. O. Broussard is Mayor. R. B. Boettcher is Engr.

LOUISVILLE, KY.—Bids are asked until Dec. 18, by the Board of Public Works, for paving 13 blocks of sidewalks with granitoid pavement. The work includes 1,647 cu. yds. excavation and 5,271 sq. yds. paving. Estimated cost, $9,300. J. P. Claybrook is City Engr.

CINCINNATI, OHIO.—It is reported that the following bids were received for paving with bitulithic Fairview Ave.: Kirchner Construction Co., $35,441; Henkel & Sullivan, $38,445; Warren Bros., $38,786, and Barber Asphalt Paving Co., $31,595.

The City Council has passed ordinances for paving McMillan St. and Cross Lane with wooden blocks and constructing granite curbs. Estimated cost, $31,000 and $6,000, respectively. The Council also passed resolutions ordering portion of North Ninth St. and Central Ave. improved with wooden block paving and a portion of Clinton St. improved with asphalt paving. M. J. Keefe is Clk. Bd. of Pub. Service. C. N. Danenhower is City Engr.

CLEVELAND, OHIO.—Regarding the proposed speedway in Cleveland, the "Leader" of Dec. 4 says: "The speedway will run through the center of a tract of 122 acres lately deeded to the Schatzinger Consolidated Realty Co., for $180,000. It will be 200 ft. wide and at either end will connect with a boulevard. Both the northerly and southerly ends of the new parkway will be known as Forest Hill Boulevard. The northerly boulevard will lead from the northerly end of the speedway to the Lake Shore Boulevard and the southerly boulevard will extend from the south end of the speedway to Euclid Ave., between Eddy Road and Fay St. It is proposed to make the speedway one of the finest in the country, and the work will be started as soon as possible. Engineers have been at work on the tract for a week and plans for the improvement have been laid out in a general way. The entire new parkway will lie outside the city limits, but to all practical purposes it will be a part of the Cleveland park system." W. J. Carter is City Engr.; Peter Witt is City Clk.

SIDNEY, OHIO.—PETER BAUER has been awarded the contract for completing the Children's Home Pike, located in Clinton Township. Charles Counts is Surv. Shelby County.

SHARON, OHIO.—JOHN L. HANNA, of Franklin, is reported to have secured the contract for macadamizing 6,400 ft. of road in Hempfield Township, at $13,485.

CINCINNATI, OHIO.—The Louis Drach Construction Co., 25 Temple Court Bldg., submitted lowest bid on Dec. 10 for grading and constructing curbs, gutters and sewers on Werk Road, the bid being $23,227. Augustus J. Henkel, Mercantile Library Bldg., was lowest bidder, at $5,870, for paving Colerain Ave. with granite block. Bids were received Dec. 10. M. J. Keefe is Clk. and C. N. Dannenhower is Ch. Engr. Bd. Pub. Service.

VERSAILLES, IND.—Bids are asked until 1 p. m., Jan. 8, by Nicholas Volz, Audr. Ripley County, for constructing roads. We are officially advised that the work consists of the following: Five miles, 4,200 ft. pike road in Laughery Township, estimated cost, $18,985; two miles, 3,170 ft. in Otter Creek Township, estimated cost, $6,895; two miles, 4,940 ft. in Brown Township, estimated cost, $9,497; one mile, 2,527 ft. in Washington Township, estimated cost, $5,600.

NEW ALBANY, IND.—The Board of Public Works has awarded the contract for the improvement of Culbertson Ave., from Vincennes to Silver Sts., to the BARBER ASPHALT PAVING CO., which was the only bidder, at $4.29 per front ft., one cent under the estimated cost. The improvement will not be made before next spring. S. T. Mann is City Engr.

ELKHART, IND.—Bids will be taken soon for paving Harrison, Marion and Franklin Sts., ten blocks on each street, with brick. A. M. Smith is City Engr.

VALPARAISO, IND.—This city contemplates constructing cement curbing and gutters on Morgan, Michigan and Water Sts. Contracts will be let March 8. Robert Ewing is City Clk.

GALESBURG, ILL.—This city will pave in the spring three blocks on North Academy St. with brick, on 5-in. concrete base, with sandstone curbing; also three blocks on Lincoln St., and three blocks on Water St. F. M. Connolly is City Engr.

CARROLLTON, ILL.—A. F. FRANKS has secured contract for paving streets about the City Square in Carrollton, at $18,000.

JANESVILLE, WIS.—Bids will be advertised for in the spring for improving various streets in Janesville. C. V. Kerch is City Engr.

CROOKSTON, MINN.—It is proposed to pave Houston Ave. with asphalt, at a cost of about $20,000. A. M. Childs is City Clk.; J. E. Carroll is City Engr.

PAOLA, KAN.—ABBOTT & COSGROVE, of Olathe, Kan., are reported to have secured the contract for paving with brick about two miles of streets in Paola, at about $90,000.

EXCELSIOR SPRINGS, MO.—It is reported that in the spring the City will pave several streets with asphalt. Estimated cost, $10,000.

ST. LOUIS, MO.—Bids are asked until Dec. 18, by the Board of Public Improvement, for paving with vitrified brick a number of alleys. A. J. O'Reilly is Pres.

The City Council has appropriated $500,000 to be expended on Highway Boulevard and $670,000 for public parks.

TACOMA, WASH.—It is proposed to construct a boulevard across the river, from Brown's Point south along the top of the bluffs to Milton. A committee has been appointed to determine the cost, consisting of C. A. Snowden, George Roberts, George R. Taylor, C. F. Owen and George Lawler.

OCEANSIDE, CAL.—M. T. GOODBODY, of Bay City, Cal., has been awarded a contract for street grading, graveling and cement sidewalking in Oceanside, calling for $23,081.

TORONTO, ONT.—The Board of Control will receive bids for construction of asphalt pavements on various streets of the city, also brick pavement, sewers, and a number of concrete sidewalks.

C. H. Rust, City Engr., has recommended the following works: Asphalt pavements: Yarmouth Road, from Miles Pl. to Shaw St., cost $3,618; Leslie St., from Queen to Gerrard Sts., cost $14,318; Russett Ave., from Bloor St. 987 ft. north, cost $9,724; Palmerston Ave., from Barton to Fallis Sts., cost $3,859; Logan Ave., from Gerrard to Bain Sts., cost $11,791; Delaware Ave., from Stanley to Hallam Sts., cost $7,094. Sidewalks: Perth Ave., from Boyce to Wallace Ave., cost $1,887; Lucas St., from Sorauren to Roncesvalles Aves., cost $1,192; Pape Ave., from Bain to Danforth Aves., cost $2,924; Binscarth Road, from Glen Road 1,131 ft. east, cost $1,827.

WINNIPEG, MAN.—The City Council has decided to asphalt Main St., from Graham Ave. to the Canadian Pacific Ry. Co.'s depot, at an estimated cost of about $300,000. H. N. Ruttan is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

ATTLEBORO, MASS.—Plans are being prepared by Karl H. Hyde, Arch., 9 Horton Block, Attleboro, for the erection of a 3-story factory building, 40 × 250 ft., for S. O. Bigney & Co. Bids will be received about Jan. 15. Estimated cost, $50,000.

PROVIDENCE, R. I.—Preparations are being made by the Crown Worsted Mill Corporation to erect an addition to the plant for the use of the Snowden Worsted Mill. It is to be of brick, 25 ft. high, 22 × 78 ft.

WOONSOCKET, R. I.—James Freidrichs, Commercial Bldg., will erect a 1-story dye-house here, 140 × 40 ft., on First Ave.

ALBANY, N. Y.—The contract has been awarded to the CLEMANCE CONSTRUCTION CO., of Syracuse, N. Y., for erecting a brick and concrete shirt factory on Perry St., extending from Sherman to Elk St., for Hall, Hartwell & Co. The building will be 120 × 140 ft., four stories high, with boiler-house, approximately 30 × 66 ft., of brick construction with the Roebling system of fireproof floors and roof. Estimated cost is $50,000. Arthur Peck Loth, Troy, N. Y., is Arch.

LONG ISLAND CITY, N. Y.—The general contract for the erection of the two 4-story factory buildings, 40 × 200 ft. and 50 × 200 ft., for the Long Island City Factory Co., has been awarded to F. G. & G. T. VAN RIPER, 24 Jackson Ave., Long Island City. Estimated cost, $125,000.

NIAGARA FALLS, N. Y.—The Union Carbide Co. will erect a factory here for preparing raw materials used in the preparation of calcium carbide. The new building will be north of the present factory, 64 × 240 ft., of brick and steel.

BAYONNE, N. J.—The H. F. Taintor Mfg. Co., 200 Water St., New York, has awarded to the JOHN W. FERGUSON CO., United Bank Bldg., Paterson, N. J., the contract for the erection of a large plant. This plant, which will be of brick and mill construction, will include a main building 357 × 125 ft., two storehouses, one 210 × 125 ft., and the other 90 × 60, and a power-house of about 200-HP. The company is one of the largest manufacturers of whiting and Paris white in this country. Fred S. Hinds, Arch. and Mechanical Engr., 19 Milk St., Boston, designed the plant.

BEAVER FALLS, PA.—The Armstrong Cork Co., Beaver Falls, will erect a $25,000 addition to its plant.

BRADFORD, PA.—The Williamson Mfg. Co. has increased its capital from $50,000 to $75,000 for the purpose of erecting a new foundry.

PHILADELPHIA, PA.—Stearns & Castor, Archs., Stephen Girard Bldg., are preparing plans for a 4-story brick, lace mill for John Graf, to be erected at A and Courtland Sts. It is to be 125 × 45 ft., and of mill construction. Power plant and special machinery will be required.

James B. Ladd, M. E., Real Estate Trust Bldg., is preparing plans for a 4-story steel, brick and concrete paper mill, for Dill & Collins, to be erected on Allen St. Bids will be received soon.

BALTIMORE, MD.—The contract for the erection of a 3-story brick factory building, 258 × 158 ft., at 539 West Pratt St., has been awarded to MORROW BROS., 216 West Saratoga St., by Erlanger Bros., 519 West Pratt St. It is to cost $7,000.

Sub-bids are asked by the Maryland Biscuit Co. for an addition to its bakery in this city. It is to be a 6-story brick, steel and concrete building, of fireproof construction.

NEWPORT NEWS, VA.—The Nelson Morris Co., of Chicago, Ill., has purchased site adjoining its present plant at 222, 23d St., on which to erect an addition to plant. About $25,000 will be expended on the addition and improvements. J. J. McPherson is Local Agt.

DURHAM, N. C.—The A. W. Vickory Co. will rebuild its hickory handle mill which was recently destroyed by fire. The company will build a 40 × 100-ft. building which will cost about $5,000.

GAFFNEY, S. C.—The DE LA VERGNE MACHINE CO., Locust Ave. and 138th St., New York, have been awarded the contract to install the 20-ton ice plant for the Victor Cotton Oil Co. Estimated cost of plant, $20,000.

AUGUSTA, GA.—The old glass works property has been purchased by J. L. Etheridge, local manager for Armour & Co., of Chicago, Ill., who will remodel and equip it as a fertilizer factory. About $100,000 will be invested in the plant, which will have an annual output of $500,000 worth of fertilizer.

SELMA, ALA.—The Selma Oil, Ice & Fertilizer Co. has been incorporated, with a capital of $80,000, for the purpose of establishing a fertilizer factory here; also a large ice plant, cold storage vaults and cottonseed oil mill of modern equipment is to be installed. The plants will represent an investment of $58,000. R. W. Barnes is Pres. and Gen. Mgr. Richard H. Coe is Vice-Pres., and C. M. Howard is Secy.-Treas.

SHEFFIELD, ALA.—The Sheffield Casting & Mfg. Co., which was recently incorporated with a capital of $50,000, will manufacture cast-iron soil pipe and fittings. A foundry building, 100 × 128 ft., and one frame storage building will be erected. Estimated cost, $8,000. D. I. Miller is Pres. and Thos. L. Patton is Gen. Mgr.

MEMPHIS, TENN.—The Memphis Ginning & Cotton Huller Co. will rebuild its plant which was recently destroyed by fire. Estimated cost of new plant is $30,000.

SOUTH PITTSBURG, TENN.—The Dixie Cement Co. will erect a large cement plant here, at a cost of over $1,000,000. The HUNT ENGINEERING CO., of Iola, Kan., has been awarded the contract. It will erect two power-houses; one a main building, one warehouse, 105 × 600 ft.; one clinker building, one crusher building and one sack house, one office building, laboratory, coal crusher and other miscellaneous structures. The buildings will be of structural steel and reinforced concrete. In addition to the above buildings it will erect a large pumping station on the Tennessee River to supply the plant and a general system of water-works will be put in for the benefit of the employes. Elis Soper is Vice-Pres. and Supt., at South Pittsburg.

MEMPHIS, TENN.—The Concrete Construction Co., which was incorporated with a capital of $50,000, will erect a large plant on a 10-acre tract of land, recently acquired by the company, on the Southern Ry. Concrete building blocks will be manufactured.

COLUMBUS, OHIO.—The James Ohlen & Sons Mfg. Co. will rebuild its factory on Factory St., near the Olentangy River. When completed is will be one of the largest saw manufacturing factories in the world.

NEW YORK-OHIO.—The Industrial Department of the Erie R. R. Co., 11 Broadway, New York City, makes the following announcement: "Since June 30, 1906, a number of new manufacturing plants are being constructed along the lines of the Erie. The Bohl Silk Dyeing Co. is constructing a large dye works at Dundee Lake, N. J. The American-La France Fire Engine Co. has consolidated its Cincinnati, Ohio, and Seneca Falls, N. Y., plants at Elmira, N. Y., and is greatly enlarging its works there. The International Time Recording Co. is building a large plant at Endicott, N. Y., for the manufacture of time recorders and time stamping devices. The Spencerville Hoop Co. is establishing a hoop mill on the Erie tracks at Spencerville, Ohio. The Enterprise Cut Glass Co. has located at Elmira, N. Y. The W. H. Page Boiler Co., of Norwich, Conn., is locating a large plant at Meadville, Pa., for the manufacture of house-heating boilers. The Petroleum Iron Works Co. has purchased a large acreage along the Erie tracks at Sharon, Pa., on which it will build a plant for the manufacture of light and heavy steel-plate construction material of every description. The Trussed Concrete Steel Co. is constructing a large plant on the Erie at Youngstown, Ohio. The track-lay-out to this plant gives unexcelled facilities. The buildings are reached by two tracks leading off with 10° curves so that the largest locomotives can operate on them. Other factories are also in course of construction." Luis Jackson, Industrial Comr., Erie R. R.

DUBLIN, IND.—Arrangements are being made for the construction and equipment of a large factory to manufacture plumbing supplies. The estimated cost of the plant is $60,000. N. O. Nelson, of the N. O. Nelson Mfg. Co., Tenth and Chestnut Sts., St. Louis, Mo., is back of the enterprise.

LAFAYETTE, IND.—The Kern Bros. are asking for bids for the reconstruction of their packing plant recently destroyed by fire. Estimated cost, $30,000.

LEBANON, IND.—The Gregg Coutant Co., of Crawfordsville, contemplates erecting a new factory building in this city. Phil Adler, A. L. Neal and A. J. Smith, Bldg. Com.

HAMMOND, IND.—The National & Commercial Mfg. Co. has ordered plans for the erection of an automobile plant in this city. Clarence Kistlen, L. F. Jones and E. J. Hathaway are Directors.

MOORELAND, IND.—The Stanley Mfg. Co. has incorporated to build and equip a $25,000 automobile manufacturing plant. W. R. Liens, Eli Hornady and Jas. H. Cory are Directors.

RICHMOND, IND.—The Richmond Creosoting Co., recently incorporated, will soon ask for bids for the construction and equipment of a plant. Henry C. Star is Attorney.

KOKOMO, IND.—The Superior Tool & Machine Co. will establish a factory in this city. A. P. Weigel is Pres.

CHICAGO, ILL.—Francis M. Barton, Arch., 1224 Royal Insurance Bldg., is preparing plans for a large factory, to be erected on a 5-acre plot of ground bounded by South 43d and South 44th Sts., and the alley south of Colorado Ave. and the Chicago Terminal Transfer Co.'s tracks, for the Adams & Elting Co., manufacturers of paints and wood fillers. There will be several buildings of reinforced concrete construction. Estimated cost, $100,000.

DANVILLE, ILL.—Plans are being prepared for the Danville Car Co. for the extensive plant to be erected by them in this city. The erecting shop will be 240 × 320 ft., of brick construction; the mill will be 60 × 180 ft., cabinet shop 60 × 120 ft., varnish room 60 × 120 ft., blacksmith shop 80 × 120 ft., truck shop, machine shop and engine-room each 60 × 120 ft.; a large freight car repair shop 90 × 320 ft. will also be erected. The company expects to turn out from 200 to 300 electric cars annually and repair from 2,000 to 5,000 freight cars.

SUMMIT, ILL.—It is reported that the Corn Products Refining Co., Rookery Bldg., 217 La Salle St., Chicago, may locate its plant here. The company is negotiating for the purchase of a tract of land of 130 to 140 acres south of 63d St., extending from Archer Ave. to the drainage canal. The plant will have a grinding capacity of 50,000 bushels of corn a day and involves an investment of $4,000,000 to $5,000,000. Mr. Chamberlain, office with the owners, has charge of the work.

MILWAUKEE, WIS.—The Badger Cement Product Co., of this city, will erect a 1-story factory, 40 × 100 ft., at Humboldt Ave. and Chambers St. The company is in the market for two new cement block machines.

MINNEAPOLIS, MINN.—The proposed factory of John T. Barnum, mentioned in issue of Dec. 6, will not be commenced before March, 1907.

The Washburn Co. is having new plans prepared by Edwin H. Hewett, Arch., 716 Fourth Ave., South, for a steel plant to be erected near 34th St. and Hiawatha Ave. Estimated cost, $250,000.

EL PASO, TEX.—The Atlas Brick Co. will erect a building 86 × 106 ft. of corrugated iron and equipped for a daily output of 40,000 sandlime brick. Estimated cost, $60,000.

SEATTLE, WASH.—The Seattle Ice Co. will double the capacity of its plant by erecting a 3-story brick building to cost between $100,000 and $150,000. Frank W. Morgan is Secy., of Seattle.

ASTORIA, ORE.—The Kendall Can Co. has been incorporated by George W. Sanborn, F. P. Kendall and G. C. Fulton with a capital of $100,000 and will at once make arrangements for the erection of a plant for the manufacture of cans. The plant is to be equipped with the most modern machinery.

PORTLAND, ORE.—The Hazelwood Creamery Co. will erect a 5-story creamery building at Fourth and Hoyt Sts. at a cost of $100,000.

It is reported that the Independent Coal & Ice Co. will install a new ice plant at a cost of $150,000. N. B. Rankin is Pres. C. M. Gay, of Chicago, is Consult. Engr.

SHAWENEGAN FALLS, QUE.—A cotton mill will be built at Shawenegan Falls immediately by the newly organized North American Cotton Co., capital $2,000,000 preferred and $1,000,000 of common stock. The company will operate 100,000 spindles and employ 2,000 hands. They have contracted with the Shawenegan Power Company for 2,500 horse-power. Plans are being prepared by F. P. Shedon, Providence, R. I.

MORRISBURG, ONT.—The [illegible] Canada Tin Plate Co. have four of the [illegible] mills they are installing near compl[illegible] About 1,000 men will be employed. [illegible] is the first tin plate plant to be establ[illegible] in Canada.

STRATFORD, ONT.—The [illegible] Trunk has decided on an expenditure [illegible] 200,000 on the enlargement and extens[illegible] the Shotford shops. Plans are now [illegible] prepared by the company.

TORONTO, ONT.—The U[illegible] Zinc Co., of Boston, will establish a [illegible] here. The Dominion Radiator [illegible] will spend about $200,000 on a new fa[illegible] of double the present factory's capac[illegible] employ 800 hands.

WINDSOR, ONT.—The Distil[illegible] Water Ice Co. will erect a plant here at [illegible] of $65,000. The capacity of the pla[illegible] be 50 tons a day.

WETASKIWIN, ALTA.—The [illegible] of the Strathcona Brewing Co. will [illegible] improved at an estimated cost of $100,[illegible] Address Mayor Swabado or A. S. Ros[illegible] M. P., both of Wetaskiwin, Alta.

VICTORIA, B. C. — The M[illegible] Wire Fencing Co., Detroit, Mich., will [illegible] a factory here for the manufacture [illegible] concrete reinforcements, to cost over $40,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

CRUISER.—Ottawa, Ont.—The Dominion Government will build a cruiser, at a cost of $225,000, for the fisheries protection service on the Pacific Coast.

PIER.—St. Valier, Que.—Bids are asked until Dec. 20 by the Department of Public Works, for constructing a landing at St. Valier, Bellechasse County.

DITCH.—Wadena, Minn.—The contract for constructing Ditch No. 7, bids opened Nov. 26, has been awarded to PETER NEHL, of Sebeka, for about $4,000. F. E. Gares is County Comr.

LEVEE.—New Orleans, La.—Bids are asked until 11 a. m., Dec. 17, for constructing about 86,700 cu. yds. of levee work in the Lake Borgne Levee District. Capt. J. F. McIndoe, Engrs.

LEVEE. — New Orleans, La. — Bids are asked until Dec. 17 by Capt. J. F. McIndoe, Corps Engrs., New Orleans, for constructing about 86,700 cu. yds. levee work in the Lake Borgne Levee District.

STEEL BARS.—Portland, Ore.—Bids are asked at the office of the U. S. Reclamation Service, Portland, until Dec. 26, for furnishing about 1,800,000 lbs. steel bars for reinforcement of concrete.

BROKEN ROCK.—New York, N. Y.—Bids are asked until Dec. 19 by Bird S. Coler, Pres. Boro. of Brooklyn, for furnishing and delivering 16,620 cu. yds. broken trap rock and 7,320 cu. yds. trap rock screenings.

DITCH.—Des Moines, Ia.—Bids are asked by the Board of Supervisors of Polk County, Lew Burnett, County Audr., until Dec. 28, for the construction of a drainage ditch requiring about 50,000 cu. yds. excavation.

REPAIRING FIREBOATS.—New York, N. Y.—Bids are asked until 10.30 a. m., Dec. 18, for repairing the fireboats "William L. Strong" (Engine 66) and "Abram S. Hewitt" (Engine 77). Francis J. Lantry, Fire Comr.

REMOVING LEDGE.—Portsmouth, N. H.—Specifications for removing a ledge in front of quay wall at the Navy Yard at Portsmouth are on file at office of Engineering News, New York, N. Y. Bids are asked until Jan. 5.

REMOVAL OF WRECK.—New York, N. Y.—Bids are asked until Jan. 11, noon, for removal of wreck of steamer "Governor." Rockaway Inlet, Long Island, N. Y. Col. D. W. Lockwood, U. S. Engrs., Army Bldg., New York. (Advertised, Engineering News.)

COAL HANDLING PLANT. — California City Point, Cal.—The Navy Department at Washington, D. C., has awarded to the HOSHOR-PLATT CO., 120 Liberty St., New York, the contract for the coal-handling plant at the U. S. Coal Depot here, for $87,893.

ARMORY EQUIPMENT.—New York, N. Y.—Bids are asked by the Board of Armory Commissioners until 2 p. m., Dec. 27, for equipments and miscellaneous articles for completing the new armory for the Second Battalion, Naval Militia, N. Y., Boro. of Brooklyn.

ELECTRICAL CONDUCTORS.—New York, N. Y.—Bids are asked by Theodore A. Bingham, Police Comr., Dept. of Police, until 10 a. m., Dec. 26, for furnishing and erecting all the materials required for furnishing electrical conductors and placing electrical conductors underground.

LUMBER.—Winnipeg, Man. — Bids are asked by the Chairman of the Works Committee, until 2.30 p. m., Dec. 18, for the supply of from 2,000,000 to 5,000,000 ft. of lumber of various dimensions for 1907, delivery as required. H. N. Ruttan is City Engr.; C. J. Brown is City Clk.

DREDGING.—Boston, Mass.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to the EASTERN DREDGING CO., 247 Atlantic Ave., Boston, Mass., contract for dredging in slips, navy yard, Boston, Mass., at 44 cts. per cu. yd. The whole work will approximate $13,500.

WHARF.—New Orleans, La.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to the MILWAUKEE BRIDGE CO., Milwaukee, Wis., contract for strengthening cross wharf approaches to floating dock, naval station, New Orleans, under item 3 of the specifications, at their bid of $11,600.

STRUCTURAL STEEL, STEEL BARS, ETC.—Mitchell, Neb.—Bids are asked by the U. S. Reclamation Service until 2 p. m., Jan. 24, for furnishing about 125,000 lbs. of steel bars for reinforcement of concrete, about 16,000 lbs. of structural steel and about 50,000 lbs. of c.-i. gates, guides, stands, etc. (Advertised, Engineering News.)

READERS' WANTS FOR THOSE IN THE MARKET

The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, **mention Engineering News.** Have you a copy of our Buyers' Guide? **Engineering News Can Help Buyers.**

HYDRANTS AND VALVES.—Los Angeles, Cal.—The National Wood Pipe Co., Los Angeles, Cal., informs us that it is in the market for hydrants and valves.

GARBAGE DESTRUCTORS.—New York, N. Y.—Herman Isaacs, 116 Broad St., New York, desires the names of firms making machinery for the destruction of garbage.

BLUE PRINT COATING MACHINERY.—El Paso, Tex.—H. L. Aulls, P. O. Box 687, El Paso, Tex., writes us that he desires the names of manufacturers of machinery for coating blue-print paper.

COMPRESSORS, CONVEYORS, ROCK DRILLS.—Chicago, Ill.—J. P. Dougherty & Co., 1309 Winona Ave., Chicago, Ill., write that they are in the market for compressors, conveyors and rock drills.

LOCOMOTIVES.—Montreal, Can.—We are in receipt of a letter from W. H. C. Mussen & Co., Montreal, Can., stating they desire names of firms manufacturing geared locomotives for heavy grades.

RAMS.—Beaver River, N. Y.—H. C. Churchill, Beaver River, Herkimer County, N. Y., informs us that he is in the market for rams for forcing water to considerable height by the use of a small head.

DUMP CARS, WAGONS, CONVEYING MACHINERY, ETC.—Teichville, Llano, Tex.—Frank Teich, Teichville, Llano, Tex., informs us that he is in the market for dump wagons, dump cars and conveying machinery.

REINFORCING STEEL.—Houston, Tex.—The Duller Engineering & Construction Co., Houston, Tex., informs us that it is desirous of catalogues and other data relative to reinforcements for concrete work.

GASOLINE GAS PLANTS.—Madison, Wis.—We are in receipt of a letter from W. G. Kirchoffer, Vroman Bldg., Madison, Wis., stating that he desires the names of firms manufacturing gasoline gas plants for city and village lighting.

HOISTING ENGINE AND CABLE.—Omaha, Neb.—We are in receipt of a letter from the Omaha Construction Co., Omaha, Neb., stating it is in the market for a second-hand, double-drum hoisting engine with 500 ft. of ¾ and 500 ft. of 1-in. line.

FIREPROOFING MATERIALS.—Wilmington, Del.—John Dockery Thompson, Jr., 608 Ford Bldg., Wilmington, Del., writes us that his office has been commissioned to build several hundred thousand dollars worth of commercial buildings and desires catalogues and other data relative to fireproofing materials.

BOILERS, BUCKETS, CEMENT, COMPRESSORS, DERRICKS, DREDGES, ELECTRICAL SUPPLIES, ENGINES, PILING, PILE DRIVERS AND PUMPS.—Buffalo, N. Y.—The Great Lakes Construction Co., Buffalo, N. Y., informs us that it is in the market for boilers, buckets, cement, compressors, derricks, dredges, electrical supplies, engines, piling, pile drivers, pumps and various other equipment and supplies.

DAM.—Silver City, Miss.—The Silver Creek Navigation Co., recently incorporated to operate in Yazoo County, will let contract at once for repairing dam at the mouth of Silver Creek and for building another dam at Sleepy Hollow. When this construction work is completed the company will give a steamboat connection from Silver City to the Sunflower River.

PIERS.—North Chicago, Ill.—Bids are asked at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until Jan. [illegible] for constructing two pile and timber protection piers at the Naval Training Station, Great Lakes, North Chicago, Ill. Applications for proposals should refer to Schedule 313. E. B. Rogers is Paym.-Gen., U. S. N.

STANDING TIMBER.—Fort Wingate, N. Mex.—Bids are asked until Dec. 26 by Col. C. A. H. McCauley, Ch. Q. M., Denver, Colo., for the purchase from the United States of standing timber on the Fort Wingate Military Reservation, approximately estimated at 68,138 M. ft., The timber to be removed under practically the regulations governing similar sales by the Department of Agriculture.

CRANE RUNWAYS.—Vallejo, Cal.—Bids are asked at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until Jan. 15, for performing work and furnishing material at the Navy Yard, Mare Island, Cal., as follows: Steel work to complete two crane runways, erection of same, one engine lathe. Applications for proposals should refer to Schedule 295. E. B. Rogers is Paym.-Gen., U. S. N.

CEMENT, BRICK, STEEL, ETC.—New York, N. Y.—Bids are asked by John H. O'Brien, Comr. of Water Supply, Gas and Electricity, until 2 p. m., Dec. 26, for (1) furnishing and delivering North River brick, American Portland cement, firebrick and fire clay; (2) lumber; (3) soda ash and copper sulphate; (4) iron castings; (5) cotton waste; (6) brass composition castings; (8) rubber valves; (10) bar iron, machinery, steel, tool steel and Tobin bronze.

CANAL.—Pittsfield, Ill. — Bids are asked until Dec. 20, by the Board of Commissioners of the Sny Island Levee Drainage District, for constructing a drainage canal in the Bay Creek Sub-district to consist of clearing the right-of-way, excavating a channel (mostly solid work) and constructing levees. Total amount of excavation required about 300,000 cu. yds. Web P. Bushnell is Ch. Engr., Quincy. A. J. Thomas is Secy. of Dist., Pleasant Hill.

DREDGING.—New York, N. Y.—The following are the bids received on Nov. 28 by Col. D. W. Lockwood, U. S. Engrs., for dredging in Mattituck Harbor, N. Y.: (a) price per cu. yd. scow measurement, (b) amount of dredgiug that can be done under available balance; J. P. Randerson, 755 Madison Ave., Albany, (a) 33 cts., (b) 19,700 yds;. Seely-Taylor Co., (N. Y. Inc.), 78 Broad St., N. Y. City, (a) 49 cts., (b) 13,265 cu. yds.; J. M. Briggs, 17 Battery Pl., N. Y. City, (a) 72 cts., (b) 9,028 cu. yds.

SUBWAYS.—New York, N. Y.—The Rapid Transit Commission and the Board of Estimate and Apportionment have decided to prepare forms for bids to be advertised for the three proposed new rapid transit subway lines in Manhattan, together with two new lines in the Bronx and the line to Fort Hamilton and Coney Island, Borough of Brooklyn. There will be three classes of contracts advertised early next year. One will call for bids for construction only, another will call for operation only, and the third will be for construction and operation. The proposed lines in Manhattan are the Third, Lexington, Seventh and Eighth Aves.

SIGNALING APPARATUS.—Washington, D. C.—The UNION SWITCH & SIGNAL Co., Swissvale, Pa., has received contract for the interlocking and signaling of the terminal station now being constructed in Washington, D. C., by the Pennsylvania and the Baltimore & Ohio Railroad Companies. The installation will be electro-pneumatic, similar in its general characteristics to that in the railway yards of the Pennsylvania Railroad at the Union Station in Pittsburg. The Boston "Transcript" states that "the Washington installation will be the largest and most complicated one in the world. The largest one previous to this was put in service at St. Louis at the beginning of the World's Fair, and before that the most important was the electro-pneumatic interlocking system at the terminals of the Boston South Station."

DREDGING.—Alexandria, La.—The Board of Commissioners, Red River, Atchafalaya and Bayou Boeuf Levee District, has let contract to GULF DREDGING & TIMBER CO., Ltd., of New Orleans for dredging approximately 30 miles of drainage canals. The company's bid was for clearing work, $2,300 per mile, and for dredging work, $17.98 per cu. yd. It is proposed to cut a channel 40 ft. wide at the bottom, with sides sloping upward. The contract also calls for the clearing of a 200-ft. right-of-way, which means that the contractors will have to clear the ground for a distance of 100 ft. on either side of the center of the canal. From Bayou Jack to Swaze Lake about 16 miles will have to be cleared, while approximately 250,000 cu. yds. of earthwork must be removed. Between Swaze Lake and Bayou Bourtableaux it is estimated that there will be about twelve miles of clearing and about 160,000 cu. yds. of earthwork. The work will cost about $150,000. F. M. Kerr is Ch. State Engr.

U. S. POSSESSIONS AND CUBA.

CREMATORY.—Manila, P. I.—Contract for the construction of the crematory at Fort McKinley has been awarded to WICKHAM QUINAN, Manila, P. I., at $5,500.

EARTH-SPREADERS.—Panama. — David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to the MANN, McCANN CO., Chicago, Ill., contract for furnishing ten earth-spreaders for the Canal, at $66,070. Bids were opened Oct. 23.

WATER-WORKS BONDS.—Manila, P. I.—Bids are asked by the Bureau of Insular Affairs of the War Department, at Washington, D. C., until 2 p. m., Dec. 19, for the purchase of $2,000,000 of bonds, to provide funds to continue the work of constructing water-works and a sewer system at Manila.

BOILERS.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded contract to the ROBB-MUMFORD BOILER CO., South Framingham, Mass., for furnishing 24 return tubular boilers, and accessories, at their bid of $56,686. Bids were opeued Nov. 1.

IRON PIPE.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to the U. S. STEEL PRODUCTS & EXPORTS CO., 21 State St., New York, contract for furnishing 219,000 ft. galvanized iron pipe, sizes from ¼-in. to 4-in., at $28,694.

LEPROSY HOSPITAL.—Molokai, Hawaii.—No bids were received at the office of the Supervising Architect of the Treasury, Washington, on Dec. 3, in answer to advertisement for proposals for the construction of a leprosy hospital at Molokai, Hawaiian Islands. New bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, until 3 p. m., Feb. 1, for this work. (Advertised, Engineering News.)

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., Dec. 28, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, for a quantity of engineering and other supplies, as follows: 17,000 ft. cast-iron soil pipe and fittings; valves, bibbs, steel, iron, bolts, rivets, lag screws, punches, chisels, chains, wire, manila rope, wool waste, oakum, leather, locomotive headlights, glass, ladders, handcarts, oil, furniture, etc.

ENGINERING SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., Dec. 17, by David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., under Circular No. 342, for a large quantity of miscellaneous supplies, of which the only articles interesting from an engineering standpoint are: Angle steel, tees, channels and I-beams; extra soft steel plates; bar iron; rivets; cast and galvanized iron pipe fittings; 12 duplex pumps; steam gages; injectors; inspirators; lubricators; 18 locomotive headlights; electroliers, etc.

ENGINES, ETC.—Panama.—Requisitions have been received by the Isthmian Canal Commission, Washington, D. C., for one engine and generator for doubling the capacity of the Culebra light plant. The engine is to be 350 I. H. P. non-condensing, four-valve side crank tandem compound fly-wheel governor type, provided with heavy sub-base for support of a 200-KW. revolving field 60-cycle 2,300-volt generator. It is to make 200 revolutions per minute, under a steam pressure of 120 lbs. Cylinders 15 ins. and 29 × 22 ins. Time of delivery and steam consumption will be considered as essentials in the bid. Four Scotch marine type boilers are also called for.

CAST-IRON PIPE.—Panama.—Bids were opened Dec. 6 at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing 25,860 ft. standard cast-iron pipe, of various sizes, as follows: Allegheny Forging Co., Pittsburg, $18,855; time, 60-90 days. Camden Iron Works, Camden, N. J., $16,017; 50 days. Central Foundry Co., New York, $15,561; 30-50 days. J. B. Clow & Sons, Chicago, $18,714; shipment, ten days. M. J. Drummond & Co., New York, $17,710.18; 60-70 days. Handlan-Buck Mfg. Co., St. Louis, $18,052; 180 days. E. F. Keating Co., New York, $26,513; 90-150 days. Stauffer, Eshleman & Co., New Orleans, $13,467 (foreign material).

SUCTION-DREDGES.—Panama.—Bids were opened Dec. 11, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, for furnishing two suction dredges, one at La Boca and one at Cristobal, C. Z. Bids were as follows: Bay & River Dredging Co., 604 Mission St., San Francisco, $198,910; La Boca; 340 days. International Contract Co., 737 New York Block, Seattle, Wash., La Boca delivery; $195,000 on Government specifications; $155,000 on its own specifications, subject to Government approval; 180 days. Maryland Steel Co., Sparrow Point, Md., $127,750, Cristobal delivery; 305 days; Sparrow Point delivery; first dredge, $118,750, 305 days; second dredge, $100,100, 365 days. R. G. Packard Co., 130 Pearl St., New York, $189,000; Cristobal delivery; 455 days. Pusey & Jones Co., Wilmington, Del., La Boca delivery, $219,755; Cristobal delivery, $175,477; 364 working days. Newport News Shipbuilding & Dry Dock Co., Newport News, Va., Newport News delivery, first dredge, $107,000; nine months; second dredge, $102,000, 10 months.

WELL-DRILLS. — Panama. — Bids were opened Dec. 6 at the Office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, for 45 steam churn drills, with complete assortment of drilling tools and duplicate parts: Manning, Maxwell & Moore, New York, $38,223; 90-150 days. Star Drilling Machine Co., Akron, Ohio, $37,908; 70-140 days; alternate, $33,858; 70-140 days. Leidecker Tool Co., Marietta, Ohio, $40,820; 20-150 days. Austin Mfg. Co., Chicago, $36,125; 75-120 days. Keystone Driller Co., Beaver Falls, Pa., $36,400; 60-120 days. Oil Well Supply Co., Pittsburg, (1) $34,324; (2) $26,175; (3) $29,286; (4) $33,336; 70-140 days. St. Louis Well Machine & Tool Co., St. Louis, $43,988; 70-150 days.

ROCK DRILLS.—Panama. — Bids were opened Dec. 6 at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, for rock drills, as follows: (a) 25 air hammer rock drills, 1⅜-in. diameter; (b) 50 rock drills, 3⅝-in. diameter; (c) 25 steam rock drills, 2¼-in. diameter; the prices include full sets of duplicate and spare parts. Chicago Pneumatic Tool Co., Chicago, (a1) $3,020; time, 30-60 days; (a2) $2,810; time ,30 days; (b) $22,335; 30-60 days; (c) $7,595; 60 days. Cleveland Pneumatic Tool Co., Cleveland, Ohio, (a) $3,011; 60-90 days. Thomas H. Dallett Co., Philadelphia, (a) $3,572; 90 days. Ingersoll-Rand Co., New York, (a1) $3,704; 10-50 days; (a2) $3,704; no time; (b1) $21,593; 45 days; (b2) $21,927; 135-160 days; (c1) $7,400; 45 days; (c2) $7,042; 45 days. Motley, Green & Co., New York, (a) $4,435; 21 days. Sullivan Machinery Co., Chicago, (a) $3,705; 30-60 days; (b) $22,835; 30-60 days; (c) $7,462; 30-60 days. George D. Whitcomb Co., Chicago, (a) $2,263; 30-60 days. Laidlaw-Dunn-Gordon Co., New York, (a) $3,408; 30-60 days; (b) $15,751, 30-60 days; (c) $5,587; 30-60 days.

CIVIL SERVICE EXAMINATIONS

COMPUTER, DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Jan. 9-10, to secure eligibles to fill a vacancy in the position of Computer in the Coast and Geodetic Survey, at $1,000 a year, and similar vacancies as they may occur under the Coast and Geodetic Survey. A vacancy as Computer at $1,400 to $1,800 a year, according to experience, and one as Draftsman at $1,400 to $1,800, according to experience, both in the service of the Coast and Geodetic Survey, at Manila, P. I., may also be filled from the eligibles resulting from this examination, provided suitable eligibles are secured. As no eligibles were secured as the result of the examination recently held for this position, qualified persons are urged to enter this examination. Age limit, 20 years. Application Form 1312.

SURVEYOR.—Philippines.—The U. S. Civil Service Commission announces an examination on Dec. 27-28 to secure eligibles to fill vacancies in the position of Surveyor, at $1,400 a year each, in the Philippine Service, and similar vacancies as they may occur in that service. The Department is unable to state the number of positions to be filled at this time. Appointees are allowed field expenses when absent on duty from their permanent station. As the Commission has experienced considerable difficulty in securing eligibles for this position, an examination having been held on Aug. 8-9, qualified persons are urged to enter this examination. Persons who are graduates in civil engineering of any college or technical school, or who are about to be graduates from any such institution, or any others, not graduates in civil engineering, who, in addition to a good general education, have had not less than three years' experience in general land and topographic surveying, will be acceptable, provided they become eligible as a result of this examination. Those having more extensive or higher grade experience will be rated accordingly. Age limit, 18 to 40 years. Application Form 1312.

MECHANICAL DRAFTSMAN.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Jan. 9-10-11 to secure eligibles to fill at least ten vacancies in the position of Mechanical Draftsman, at from $1,000 to $1,200 a year, according to their rating as a result of the examination, and for duty at any of the establishments named in the following list: Augusta Arsenal, at Augusta, Ga.; Benicia Arsenal, Benicia, Cal.; Frankford Arsenal, Philadelphia, Pa.; Manila Ordnance Depot, Manila, P. I.; New York Arsenal, Governors Island, New York Harbor, N. Y.; Ordnance Office, Washington, D. C.; Rock Island Arsenal, Rock Island, Ill.; San Antonio Arsenal, San Antonio, Tex.; Sandy Hook Proving Ground, Fort Hancock, N. J.; Springfield Armory, Springfield, Mass.; United States Powder Depot, Dover, N. J.; Watertown Arsenal, Watertown, Mass.; Watervliet Arsenal, Watervliet, N. Y. The number of draftsmen employed in the Ordnance Department at Large depends upon the work authorized under the appropriations for this Department, and the vacancies which it will be necessary to fill when the register of eligibles is established as a result of this examination cannot at present be definitely stated. As the Commission has experienced considerable difficulty in securing eligibles for this position, qualified persons are urged to enter this examination. Age limit, 20 years. Application Form 1312.

AIDS, ETC.—Washington, D. C.—The U. S. Civil Service Commission announces the postponement to Jan. 3-4 of the examination scheduled for Dec. 5-6, to secure eligibles to fill at least four existing vacancies and vacancies as they may occur in the position of Aid in the Coast and Geodetic Survey, at $720 a year. A vacancy as Computer at $1,400 to $1,800 a year, according to experience, and one as Draftsman, at $1,400 to $1,800, according to experience, both in the service of the Coast and Geodetic Survey at Manila, P. I., mac also be filed from the eligibles resulting from this examination, provided suitable eligibles are secured. For these two positions the ape limit is 20 years or over on the date of the examination. As the Commission has experienced considerable difficulty in securing a sufficient number of eligibles for this position to meet the needs of the service, qualified persons are urged to enter this examination. Vacancies in the position of Deck Officer as they may occur will also be filled as the result of this examination. Deck Officers are appointed at a salary of $900 a year for special service on board the ships of the Coast and Geodetic Survey and on hydrographic parties. They receive their traveling expenses and actual subsistence while traveling on official duty. No subsistence is paid them while on duty on the vessels. Deck Officers appointed from this examination are eligible for transfer to the position of aid, and are usually promoted in that manner. Age limit, 18 to 25 years on the date of the examination. Application Form 1312.

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

*STEEL HORSES FOR DAMS.—Wheeling, W. Va.—Bids were received on Nov. 23 for furnishing and delivering steel horses for Dams 4 and 5, Kanawha River, as follows, by Maj. George A. Zinn, Engrs.: Rate per lb.—Frank Woodman, Charleston, W. Va., 5.25 cts.; Cooper Iron Works, Newark, N. J., 8.84 cts.; Ellicott Machine Co., Baltimore, Md., 8.64 cts.; Penn Bridge Co., Beaver Falls, Pa., 6 cts.; Griffiths Iron Works Co., St. Louis, Mo., 7.125 cts.; Chas. Hegewald Co., New Albany, Ind., 5.9 cts.; G. & W. Mfg. Co., New York, N. Y., 5.48 cts.; New Jersey Foundry & Machine Co., New York, N. Y., 9.23 cts.; Sterrit-Thomas Foundry Co., Pittsburg, Pa., 8.5 cts.; Philadelphia Engineering Co., Philadelphia, Pa., total, $10,125; The James Reilly Repair & Supply Co., New York, N. Y., 10 cts.; J. & J. B. Milholland Co., Pittsburg, Pa., 9.9 cts.; Lawrence D. Weaning, Cleveland, Ohio, 8.75 cts.; Southern Foundry Co., Owensboro, Ky., 6.5 cts.; The J. E. Wright Co., Wheeling, W. Va., 13.75 cts.; Rochester Bridge & Const. Co., Rochester, N. Y., 8.37 cts.

INTERCEPTING SEWER. — Cleveland, Ohio.—Bids were received, as follows, on Nov. 13 by the Board of Public Service, for constructing portions of main intersecting sewer in Lakeside Ave., N. E., between (AA) East 40th and East 33d Sts., and (BB) between East 33d and East 26th Sts. A. R. Callow is Secy. Bd. Pub. Service. The bidders and itemized bids are: (A) CHRISTIAN BURKHARDT, 138 Lake St., Cleveland (awarded contract for Section AA); (B) The Reaugh Construction Co.; (C) The J. Connelley Construction Co.; (D) WILLIAM DENNON, 139 Ethel Ave., Cleveland (awarded contract for Section BB); (E) The C. H. Fath & Son Construction Co.; (F) John Wagner; (G) The W. J. Townsend Co.; (H) The Reserve Construction Co.; (J) The James Duff Construction Co.; (K) A. F. Helm; (L) Bues & Doolittle:

BIDS RECEIVED FOR INTERCEPTING SEWER AT CLEVELAND, OHIO.

Main intercepting sewer in Lakeside Ave., N. E., between East 33d and East 26th Sts.:

	(D)	(B)	(A)	(C)	(E)	(F)	(G)	(H)	(J)	(K)
1,746 lin. ft. 11′ 9″ brick sewer in tunnel	$39.55	$40.00	$41.88	$41.73	$42.80	$43.39	$46.00	$48.00	$50.24	$50.56
8 cu. yds. 1 : 4 : 8 Portland cement concrete	11.75	7.00	5.50	10.00	7.50	6.50	15.00	6.00	9.00	7.80
1 special manhole	1,535.00	900.00	495.00	775.00	480.00	1,800.00	1,225.00	500.00	3,000.00	.....
2 manholes at end of 18″ pipe	195.00	300.00	175.00	400.00	190.00	200.00	165.00	150.00	200.00	240.00
1 manhole with 30″ iron cover and cap	195.00	300.00	275.00	500.00	220.00	500.00	170.00	175.00	669.50	.....
60 lin. ft. 18″ D. S. pipe sewer	3.75	5.00	7.95	2.95	1.50	5.00	7.00	6.50	5.00	8.00
2 18″ slants in place	1.75	1.50	2.00	1.00	2.00	7.00	2.50	1.75	2.50	2.00
6 cu. yds. shale brick masonry in bulkhead	17.50	15.00	12.00	13.50	12.00	12.00	20.00	10.00	30.00	9.50
Total	$71,602	$72,089	$74,839	$75,276	$76,035	$78,870	$82,706	$85,284	$92,346	$90,336

Main intercepting sewer in Lakeside Ave., N. E., between East 40th and East 33d Sts.:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(J)	(K)
160 lin ft. 3′ × 4′ × 6″ brick sewer in tunnel	$13.75	$10.00	$14.00	$15.75	$11.00	$12.00	$14.00	$20.00	$16.24	$12.50
1,730 lin. ft. 9″ brick sewer in tunnel	39.93	40.00	39.73	41.75	42.80	42.38	46.00	51.00	50.24	50.56
4 cu. yds. 1 : 4 : 8 Portland cement concrete	5.50	7.00	10.00	11.55	7.50	6.50	15.00	6.00	9.00	7.80
2 special manholes	495.00	900.00	775.00	1,535.00	480.00	1,800.00	1,225.00	500.00	3,000.00	724.45
2 manholes with 30″ cap and cover	275.00	300.00	500.00	195.00	220.00	500.00	170.00	175.00	669.50	250.00
1 manhole at end of 18″ pipe	175.00	300.00	350.00	195.00	190.00	200.00	165.00	150.00	200.00	240.00
30 lin. ft. 18′ D. S. pipe sewer	7.95	5.00	2.95	3.75	1.50	5.00	7.00	6.50	5.00	8.00
1 manhole at East 40th St.	495.00	400.00	300.00	315.00	200.00	400.00	200.00	150.00	600.00	350.00
1 18″ slant in place	2.00	1.50	1.00	1.75	2.00	7.00	2.50	1.00	2.50	2.00
For removing brick bulkhead and buttress	25.00	50.00	100.00	55.00	150.00	75.00	50.00	25.00	50.00	125.00
6 cu. yds. of shale brick masonry in bulkhead	12.00	15.00	13.50	17.50	12.00	72.00	20.00	60.00	30.00	9.50
Total	$73,848	$74,219	$74,483	$79,038	$77,893	$80,767	$85,417	$93,395	$98,161	$92,463

*Informal.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 208.

BRIDGE.

Manistee, Mich.

The Township Board of Manistee Township will receive proposals at Eastlake, Michigan, until 2 p. m., Jan. 4, for:

1st. Furnishing, Driving and Capping Two Pile Foundations.
2d. Building Two Abutments, Stone Masonry or Concrete.
3d. Clearing, Repairing, Erecting and Painting an old 100-ft. Span Iron Bridge.
4th. Constructing a Reinforced Concrete Bridge, 50-ft. Span.

Plans and specifications can be seen at the office of the County Surveyor, Manistee, Mich., after Jan. 1. 24-1t

WATER-WORKS.

Bourbonnais, Ill.

Public notice is hereby given that the Board of Local Improvements of the Village of Bourbonnais, in the County of Kankakee and State of Illinois, will receive bids under seal up to six o'clock P. M. on the 22d day of December A. D. 1906, at the office of the Village Clerk of said Village of Bourbonnais, Illinois, for the construction and laying of 2,600 feet of 8-inch water mains, 3,500 feet of 6-inch water mains, and 3,000 feet of 4-inch water mains; also 22 hydrants, 5 8-inch valves and boxes, 3 6-inch valves and boxes, and 4 4-inch valves and boxes.

The above figures are approximated and for more accurate figures reference is hereby made to the plans and specifications on file in the office of the Village Clerk where same may be seen. Said Board will open said bids at 7.30 o'clock P. M. on the 22d day of December, A. D. 1906, and reserve the right to reject any and all bids, all bids to be accompanied by a certified check of 10% of the amount of said bids.

Dated at Bourbonnais this 8th day of December, A. D. 1906.

BOARD OF LOCAL IMPROVEMENTS OF THE VILLAGE OF BOURBONNAIS.
By F. E. LEGRIS,
24-2t President.

DEPARTMENT OF THE INTERIOR, UNITED STATES GEOLOGICAL SURVEY, Reclamation Service, Washington, D. C., December 7, 1906.—Sealed proposals will be received at the office of the United States Reclamation Service, Mitchell, Nebraska, until 2 o'clock p. m., January 24, 1907, for furnishing about 125,000 pounds of steel bars for reinforcement of concrete, about 16,000 pounds of structurral steel and about 50,000 pounds of cast-iron gates, guides, stands, etc. For specifications, forms of proposal and plans, address the U. S. Reclamation Service at Washington, D. C., or at Mitchell, Nebraska. E. A. HITCHCOCK, Secretary. 24-4t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., December 11th, 1906.—Sealed proposals will be received at this office until 3 o'clock P. M. on the 15th day of January, 1907, and then opened, for the construction of an extension, including heating apparatus, electric wiring and conduits, to the U. S. Court-House, Post-Office, etc., at Dallas, Texas, in accordance with drawings and specifications, copies of which may be had at this office or at the office of the Custodian, at Dallas, Texas, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 24-2t

Practical Hints For Concrete Constructors

By W. T. DOUGLAS, C. E.,
Bridge Engineer of the District of Columbia,

is the title of a five-page article that will appear in Engineering News of December 20.

This is one of the most practical and useful articles on the design, construction and inspection of concrete work that has ever been written.

It discusses the reasons why, in America, we do not succeed in obtaining as good results with finished concrete work as the French. It gives a summation of recorded experiences and practical hints for the Design and Handling of Concrete Work; the Selection of Materials; the Drawing Up of Specifications; Engineering Supervision and Inspection; Construction Work and Finishing, Etc., all of which should be of great assistance to the designer and engineer-constructor in obtaining the best results from his work.

This copy of Engineering News should be read and preserved by every Engineer, Architect and Contractor, and may be obtained by enclosing 15 cents with the attached form; or, in order to obtain the subsequent discussion and comment, send $1.00 for a ten weeks' subscription. This will be *dated* from the first issue in January; but papers will be sent from the issue of December 20. Order NOW.

Date.....

The Engineering News Publishing Co., 220 Broadway, New York

Find enclosed $.....for which send me

ENGINEERING NEWS for.....

Name .....

Address .....

.....

Please mention the special lines of engineering work in which you are engaged.

Notice to Advertisers

Copy for the December 20th issue will be accepted until noon December 15th.

SEWER.

Bisbee, Ariz.

Sealed proposals will be received at the office of the Warren Company for the construction of a water system, a sewerage system, and a sewage disposal plant, until 2 o'clock P. M., Tuesday, January 15th, 1907. Instructions to bidders, proposals, plans, specifications, approximate quantities and such other information as is necessary to the bidder may be had upon application, or seen at the offices of the Engineering News, New York City, New York. Plans and specifications will be sent to competent bidders upon receipt of a certified check in the sum of twenty-five dollars ($25.00), as a guarantee for the return of the plans. Proposals shall be made upon blanks furnished by the company, and shall be accompanied by a certified check or a surety bond in the sum of 10 per cent. of the amount of their bid.

The Warren Company reserves the right to reject any and all bids.

CLEVE W. VAN DYKE, Manager,
Bisbee, Arizona.
A. R. APPLEGARTH, Engineer.
December 1st, 1906. 24-4t

STREET PAVING.

Newburgh, N. Y.

Sealed proposals will be received at office of City Clerk in City Hall, Newburgh, New York, until twelve o'clock noon of Monday, Jan. 7, 1907, for furnishing all materials for paving and permanently improving that portion of North Water Street and Leroy Place lying between Broad Street and the west line of Liberty Street in said city with vitrified block, asphalt block, or Warren's bitulithic pavement.

There is about 10,500 sq. yds. to be paved, curbstones to be set, catch basins, sewer manholes, etc., to be built.

Cash or a certified check for five hundred dollars must accompany each bid. Bidding sheets may be obtained and plans and specifications can be seen at the office of City Engineer, City Hall, Newburgh, N. Y., on and after December 3, 1906.

The Board of Public Works hereby reserves the right to reject any or all proposals and to accept any considered favorable to the city.

D. J. COUTANT,
City Clerk.
EVERETT GARRISON,
City Engineer.
Dated Newburgh, N. Y., Nov. 24, 1906.
23-2t

U. S. ENGINEER OFFICE, Room F-7, Army Building, New York, N. Y., December 12, 1906.—Sealed proposals for removal of wreck of steamer "Governor," Rockaway Inlet, Long Island, N. Y., will be received at this office until 12 M., January 11, 1907, and then publicly opened. Information furnished on application. D. W. LOCKWOOD, Col., Engrs. 24-4t

Steam Shovel Excavation

150,000 yards excavation to be done on Long Island, N. Y. Will let the work entire or price per yard placed on our wagons.

Plan and profile can be seen at our office.

FOYE-FOX COMPANY,
20 Broad St.,
24-tf. New York City.

SITUATIONS OPEN

ENGINEER WANTED.—An experienced designing and manufacturing engineer, one who has had shop work experience as well as having a technical knowledge of electrical work and general mechanism. Salary, three thousand dollars per year. Address "G. B. 24," Engineering News, New York. 24-1t

WANTED—Sewer Foreman; must be reliable and not a drinker. 928 PARK ROW BUILDING, New York. 24-1t

WANTED—An experienced steam or gas power-house and electrical engineer to take charge of 500-HP. gas engine, three-phase generator power plant at South Hanson, Massachusetts. Address HANSON GAS & ELECTRIC CO., Bryantville, Mass. 24-1t

SUPERINTENDENT WANTED familiar with the manufacture of broken stone; one able to take charge of both quarry and mill work, located within 50 miles from New York. Must be well recommended. Advise salary. Address "F. B. 24," Engineering News, New York. 24-1t

WANTED—The address of an Engineer thoroughly familiar with the manufacture of artificial ice by means of liquefied sulphurous acid, with view to employment. Write FRANK SHUMAN, Tacony, Philadelphia, Pa. 24-1t

FOR SALE

FOR SALE.

15-ton Locomotive Crane

made by the Industrial Works, Bay City, Michigan, standard gage 8-wheel type.

HOISTING MACHINERY COMPANY,
Park Row Bldg. 24-1t

CARS FOR SALE

40 WESTERN 1½-YD. 24-IN. GAGE CARS.
16 WESTERN 2-YD. 36-IN. GAGE CARS.

CINCINNATI EQUIPMENT CO.,
24-tf Cincinnati, Ohio.

FOR SALE.

24 × 24 × 30
Ingersoll Air Compressor
Used 30 days.

CINCINNATI EQUIPMENT CO.,
24-tf Cincinnati, Ohio.

FOR SALE

New 70-ton BUCYRUS
New Model 50 MARION
New Model 60 MARION
STEAM SHOVELS

Immediate Delivery
24-tf
CINCINNATI EQUIPMENT CO., Cincinnati, Ohio

ADVANCE NEWS is always wanted for our CONSTRUCTION NEWS and our readers are often in a position to send us such items. We ask to be kept informed of new work.

Supple

CONSTR
Plans
List
Railw
Elect
Light
Bridg
Build
Wate
Sewe
Stree
Mani
Misc
U. S
Mexi
Fore
CIVIL S
INDUST
TRADE
PROPO

PLA

The
ding St
gineeri
York:

Bids
close.
Dec.
•20—B
•20—S
•22—S
22—
27—
•26—
Jan.
4—
5—
•8—

•W

Bids
close.
Dec.
Dec.

Dec.
Jan.

Jan.

Jan.
Jan.

Feb.

Mar.

Dec.

Dec
Dec
Dec
Jan

Dec
Dec

Dec

De
De
Ja
Ja

Ja
Ja
Ja

D
D
D